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Agricultural Economic Report Number 565

# Food Marketing Review, 1986



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FOOD MARKETING REVIEW, 1986. National Economics Division, Economic Research Service, U.S. Department of Agriculture. Agricultural Economic Report No. 565.

#### ABSTRACT

U.S. food marketing sales likely will reach an estimated \$555 billion in 1986, with food and beverage sales of \$485 billion and \$70 billion in nonfood sales, 5 percent over 1985. Food marketing will continue to be the largest U.S. marketing system, accounting for about one-tenth of both U.S. employment and gross national product (GNP). The food marketing system's contribution to GNP will be nearly nine times the value of the U.S. farm system's food-related contribution. Food manufacturers, retailers, and wholesalers will rank first in sales among all manufacturers, retailers, and wholesalers. This report analyzes these and other developments in the U.S. food marketing system.

Keywords: Food service, retailing, manufacturing, wholesaling, marketing

Note: Use of brand or firm names in this publication does not imply endorsement by the U.S. Department of Agriculture.

#### ACKNOWLEDGMENTS

This report was prepared by the following staff members of the National Economics Division, Economic Research Service, U.S. Department of Agriculture.

Anthony E. Gallo

Project coordinator
Food manufacturing
Food wholesaling
Phillip R. Kaufman and
Charles R. Handy
Harold R. Linstrom and
Judith J. Putnam
Food service
Charles R. Handy
Section leader

Branch chief

The authors are grateful to Gene Gerke and Frank Panyko for their review of early drafts of the report. Sandra L. McNair and Sandra Wright did the typing.

Lester H. Myers

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#### **GLOSSARY**

- Aggregate concentration -- The share of output in a sector (say, food manufacturing) that is produced by the largest firms.
- Chain--A food retailer or foodservice operator owning 11 or more stores or outlets.
- Disposable personal income (DPI)--Income that individuals retain after they have deducted taxes.
- <u>Divestiture</u>--The sale of a unit (a factory, a division, or a subsidiary) of a firm, either to another firm, to management of the unit, or to independent investors.
- E.A.S.--Electronic Article Surveillance system, consisting of hidden labels on products which if removed from the premises without passing through a checkout stand will activate an alarm.
- Food manufacturing--Activities that typically use power-driven machines and materials-handling equipment to mechanically or chemically transform raw materials into foods and beverages for human consumption. Certain related industrial products, such as feeds, and vegetable and animal fats and oils, are also produced here.
- Food service--The dispensing of prepared meals and snacks intended for onpremise or immediate consumption, except for the following products when other foods are not available: candies, popcorn, pretzels, nuts, and drinks. Vended foods qualify as food service only when tables or counters are available in the immediate area and a person with records of food receipts is present at the establishment.
  - Commercial establishments—Public establishments (free standing or included in/as part of a host establishment) with the objective of the preparation/serving and sale of meals and snacks for profit to the general public.
    - Drinking places--Establishments with food service that do not operate as subordinate facilities of different and separately identifiable kinds of businesses and whose primary function is the sale of alcoholic beverages sold for consumption on the premises. Includes bars, beer gardens, taverns, night clubs, and saloons.
    - Eating places--Establishments that do not operate as subordinate facilities of different and separately identifiable kinds of businesses, and the primary function of which is the sale of prepared meals and snacks for onpremise or immediate consumption. Includes restaurants/lunchrooms, fast food outlets, and cafeterias.
    - Lodging places--Establishments that provide both lodging and food service to the general public. Included are hotels, motels, and tourist courts. Excluded are rooming and boarding houses and private residences.
    - Recreation/entertainment--Foodservice operations in theaters; bowling, billiard, or pool halls; commercial sports establishments (racetracks and stadiums); membership golf or country clubs; public golf courses;

- and miscellaneous commercial amusement and recreational establishments (tennis clubs, camps, athletic clubs, and amusement parks).
- Retail hosts--Foodservice operations that operate in conjunction with/as part of retail establishments, such as department stores, limited-price variety stores, drug stores, and miscellaneous retailers.
- Noncommercial establishments—Establishments where meals and snacks are prepared/served as an adjunct, supportive service to the primary purpose of the establishment. Includes schools, colleges, hospitals and extended care facilities, vending, plants and offices, correctional facilities, military feeding, and transportation (trains, cruise ships, and airplanes).
- Foodstore--A retail outlet with at least 50 percent of sales in food products intended for off-premise consumption.
  - Grocery store--A foodstore that sells a variety of food products, including fresh meat, produce, packaged and canned foods, frozen foods, other processed foods, and nonfood products.
    - Supermarket--A grocery store, primarily self-service in operation, providing a full range of departments, and having at least \$2.5 million in annual sales in 1985 dollars.
      - Combination food and drug store--A supermarket containing a pharmacy, a nonprescription drug department, and a greater variety of health and beauty aids than that carried by conventional supermarkets.
      - Superstore--A supermarket distinguished by its greater variety of products than conventional supermarkets, including specialty and service departments, and considerable nonfood (general merchandise) products.
      - Warehouse store--A supermarket with limited product variety and fewer services provided, incorporating case lot stocking and shelving practices. Superwarehouse stores are larger and offer expanded product variety and often service meat, deli, or seafood departments.
    - Convenience store--A small grocery store selling a limited variety of food and nonfood products, typically open extended hours.
    - Superette--A grocery store, primarily self-service in operation, selling a wide variety of food and nonfood products with annual sales below \$2.5 million in 1985 dollars.
  - Specialized foodstore--A foodstore primarily engaged in the retail sale of a single food category such as meat and seafood stores, dairy stores, candy and nut stores, and retail bakeries.
- Foreign investment--Ownership of domestic assets by foreign persons or firms.
- Gross margin--Retailer markup (over cost) as a percentage of total sales.
- Horizontal mergers -- A combining of two firms producing the same or similar products in the same market.

- Gross national product (GNP)--Dollar value of all goods and services sold plus the estimated value of imported outputs during a given period.
- Independent -- A food retailer or foodservice operator owning 10 or fewer stores or outlets.
- Megamerger--Very large mergers.
- Merger--The combination of two or more firms into one.
- Productivity growth--Measures of the rate of growth of output, relative to the growth of inputs (labor, capital, and materials) used to produce that output.
- Wholesalers--Operators of firms engaged in the purchase, assembly, transportation, storage, and distribution of groceries and grocery products, serving retailers, institutions, business, industrial, and commercial users.
  - Agents and brokers--Wholesale operators who buy or sell on the account of others for a commission and usually do not store or physically handle products.
  - Manufacturers' sales branches and offices -- Wholesale operations maintained by grocery manufacturers (apart from their plants) for distribution purposes.
  - Merchant wholesalers--Operators of firms primarily engaged in buying and selling groceries and grocery products on their own account.
    - General line wholesale merchants--Merchants handling a broad line of dry groceries, health and beauty aids, and household products.
    - Limited line wholesale merchants-Merchants who handle a narrow range of dry groceries dominated by canned foods, coffee, spices, bread, and soft drinks.
    - Specialty wholesale merchants-Merchants who handle perishables, such as frozen foods, dairy products, poultry, meat, fish, fruits, and vegetables.

#### SUMMARY

U.S. food marketing sales will likely reach an estimated \$555 billion in 1986, with food and beverage sales of \$485 billion and \$70 billion in nonfood sales, 5 percent over 1985. Food marketing will continue to be the largest U.S. marketing system, accounting for about one-tenth of both U.S. employment and gross national product (GNP). The food marketing system's contribution to GNP will be nearly nine times the value of the U.S. farm system's food-related contribution. Food manufacturers, retailers, and wholesalers will rank first in sales among all manufacturers, retailers, and wholesalers. This report analyzes these and other developments in the U.S. food marketing system.

Other highlights in food marketing for 1986 include:

- o Food marketing mergers appear likely to surpass 1985's near-record high of 480, but the magnitude of the mergers likely will be less. Of the 480 mergers in 1985, 25 were valued at over \$100 million compared with two such blockbuster mergers in food retailing and two in food service in 1986. Five of the largest mergers in food marketing history occurred in 1985.
- o The 1986 value of shipments in food processing will reach \$315 billion, while sales volume in food wholesaling may increase about 7 percent to \$385 billion. Food and alcoholic beverage sales in retailing should rise 5 percent to \$270 billion. Foodservices sales, including alcoholic drinks, will rise 6.5 percent to \$215 billion. Foodstores are increasingly competing with restaurants for the foodservice dollar.
- o The food marketing system will buy a projected \$85 billion in U.S. agricultural commodities, \$15 billion in foreign agricultural commodities, and \$8 billion in seafood products in 1986. Food processing will add an estimated \$70 billion to the value of this raw food supply; wholesaling, retailing, and transportation combined will add over \$135 billion; and eating and drinking places will add \$60 billion.
- o Wage and price stability has allowed costs to be held down, as very moderate increases in food prices reflect. Average hourly earnings in food retailing are expected to increase little in 1986 after falling in 1985.
- o Food marketing advertising and couponing will increase about 6 percent in 1986. Food expenditures account for about 15 percent of disposable income, but the food system accounts for nearly 30 percent of advertising expenditures.
- o The food marketing system will introduce about 2,500 new products in 1986 compared with 2,220 in 1985.
- o New plant and equipment expenditures in 1986 are projected to reach \$10.5 billion compared with \$10.3 billion in 1985.
- o The number of foodstores continues a long-term decline, falling to an estimated 237,000 in 1986. The trend toward larger supermarkets continues, indicated by the increasing number of superstores, combination stores, and warehouse stores.
- o Wholesale clubs, although still a minor part of total volume, are growing and servicing small businesses and group members with food as a major product line.

o Foreign investment in U.S. food marketing reached \$15 billion in 1985, while U.S. food marketing firms invested nearly \$12 billion in foreign markets. U.S. processed food exports in 1986 will probably post their fourth consecutive trade deficit, nearly matching 1985's \$5.7 billion trade deficit.

# Food Marketing Review, 1986

#### INTRODUCTION

Food sales in the U.S. food marketing system (manufacturing, wholesaling, retailing and service) are projected to reach about \$485 billion in 1986 (app. tables 1 and 2). Food wholesaling, retailing, and foodservice firms will also sell \$70 billion in such nonfood grocery items as tobacco, health and beauty aids, and household and cleaning supplies.

The U.S. food marketing system, an aggregate of all firms that process, transport, wholesale, and retail the Nation's food, performs a critically important function in marketing our agricultural output from the farm gate to the final consumer. This publication analyzes yearly developments in the size, structure, behavior, and performance of the food marketing system.

#### OVERVIEW

The food system (even without nonfood grocery items) in 1986 will continue to be the largest marketing system in the U.S. economy, accounting for about one-tenth of both U.S. employment and gross national product (GNP). Food manufacturers, retailers (both grocery retailing and food service), and wholesalers in 1986 will rank first in sales among all manufacturers, retailers, and wholesalers. The food marketing system's contribution to the Nation's GNP will be nearly nine times the value of the U.S. farm system's food-related contribution (app. table 2).

The food system, which includes alcoholic beverages, will purchase about \$85 billion in animal and crop products from the U.S. farm system, about two-thirds of domestic production. An additional \$18 billion will be spent on imported agricultural products, including \$6 billion for such noncompetitive products as coffee, bananas, cocoa, and spices and \$12 billion for such competitive products as meats, dairy, and produce. Another \$7-\$8 billion will likely be spent on seafood purchases. To this base of \$110 billion of raw agricultural and fishery products, the food system will add over \$300 billion in value. The Nation's 16,800 food processors will add about \$80 billion in 1986, while wholesalers, retailers, institutional feeders, and transportation firms will add another \$130-\$140 billion. The contribution of separate eating and drinking places, about 400,000 establishments, will likely exceed \$60 billion.

The major portion of the value added by the food marketing system is labor, ranging from payroll for workers in food processing plants to waiters in restaurants and institutional dining rooms. Although the U.S. food system is the major customer of the domestic farm economy, purchased agricultural products are not the major cost of the food system. Labor costs exceed the cost of the

raw product, especially when farm prices are as depressed as in 1986. Although heavy direct use of energy in food marketing is limited solely to food manufacturing, the food system is one of the larger users of the transportation system and the largest user of packaging materials, both of which are energy intensive. Capital expenditures are relatively minor, primarily because of low capital investment in retailing, food service, and wholesaling. Food manufacturing does, however, have sizable capital expenditures.

The economic climate in 1985 was highly favorable to cost control in food marketing but only moderately favorable to demand growth; 1986 appears to be a repetition of 1985. For the food sector, where demand is fairly stable, economic developments have a much greater effect on the cost side. Low farm prices, wage and price stability, falling energy prices, a weakened dollar, and sharply reduced interest rates characterized the economic climate facing the food marketing system in 1985 and 1986.

The food marketing system is paying considerably lower prices for many domestic farm commodities in 1986. Overall prices paid to farmers are averaging about 5 percent lower than in 1985 and 15 percent lower than in 1984. The 1986 drop will reflect a 2-percent increase for livestock-related food product prices and a 13-percent drop for crop-related food product prices. Continued high production levels and lower support prices for milk and grains are contributing to the decline. A sharp drop in exports, nearly \$5 billion from the 1985 level of \$31 billion, which in turn had fallen \$7 billion from the previous year, is also contributing to the decline in farm prices. Decelerated world economic growth, especially in the less developed countries, and expanded world production led to the export drop. Although the U.S. dollar is weak relative to many foreign currencies, the effect has been blunted because some of our leading customers either have weakening currencies or currencies tied to the U.S. dollar.

Cereal and bakery manufacturers are paying about 5 percent less for agricultural products than they did a year ago, while dairy and fresh fruit processors also are paying less. Meat processing firms are paying about 1 percent more than in 1985. Seafood processors are paying 3-4 percent more for domestic and foreign seafood products than they did a year ago due to domestic labor problems, a higher exchange rate on the supply side, and combined heavy worldwide demand. Wholesale prices of imported foodstuffs in September 1986 averaged 15 percent above those of September 1985, while prices of food exports averaged 14 percent lower.

Labor costs, which include hourly earnings and other fringe benefits, will constitute the major expense item for the food marketing system in 1986. In 1985, average weekly earnings declined in food retailing and food service, while food processing and food wholesaling rose minimally. For the first 9 months of 1986, weekly earnings in food processing moderately increased less than 2.5 percent. Weekly earnings in the other three food marketing sectors dropped from the previous year's levels. Fringe benefits also appear to be scaled down. Employment is up about 400,000 workers for all segments of the food marketing system. However, a significant portion of grocery retailing and foodservice employment is part-time. Full-time equivalent employment is projected to be up slightly from 1985.

Energy prices have declined about 15 percent in 1986 as the price of crude oil dropped drastically between 1985 and 1986. Thus, the cost of transporting foods likely will increase little in 1986, while direct costs of energy use by the marketing system will show a small decline. Packaging costs, also energy inten-

sive, in such industries as glass, paper, and plastics, showed a 2-percent decrease. The overall producer price index, a barometer of other costs to the food marketing system, will likely rise 1 percent in 1986. Long- and short-term interest rates have dropped significantly, lowering borrowing costs. Three-month U.S. Treasury bill rates averaged 6.1 percent in August 1986 compared with 8.7 percent in August 1985. The rate for Moody's AAA 20-year bonds was 8.9 percent in 1986 compared with 11 percent a year earlier.

Factors within the 1986 economy moderately favor the marketing system. Sluggish economic growth has accompanied wage and price stability in 1986. Real GNP (adjusted for inflation) jumped nearly 7 percent in 1984, increased a little less than 3 percent in 1985, and will rise about 2.5 percent in 1986. The unemployment rate, falling to 6.8 percent by yearend 1985, rose to 7.1 percent in August 1986. Much of the unemployment increase has been regional, affecting States that have been hurt by the depressed oil— and agriculturally related industries. Real disposable income per person has averaged about 2.5 percent higher. Reduced interest and mortgage rates and energy prices have freed more income for spending in the Nation's grocery stores and eating places.

But, income growth is only one of the three basic determinants of domestic food demand. Changes in the size of the employed labor force (up about 2.5 million in 1986) and the size of the population also affect demand. Annual population growth of less than 1 percent means about 2 million more mouths to feed each year. Real (adjusted for inflation) sales by food manufacturers increased about 4 percent between June 1985 and June 1986. Real sales in eating and drinking places were about 2 percent higher, reflecting their sensitivity to changes in consumer income. Per capita food consumption in 1986 is unchanged or down slightly from 1985 so that increases in real sales of the three principal food marketing industries (wholesaling, retailing, and service) appear to be rooted in population growth and changes in product mix toward higher value-added products. Despite a 30-percent decline in the value of the U.S. dollar, processed food will likely experience a \$5.5-billion balance of trade deficit in 1986.

Overall profit margins for the food marketing system are not likely to increase in 1986 despite volume growth and favorable wage and price stability. Profits in 1985 as a percentage of equity remained unchanged from those of 1984, according to available statistics. The same appears to be true for profits in 1986. Expenses related to merger activity and larger advertising and promotion campaigns may be contributing factors.

Average retail prices for food are likely to increase about 3 percent in 1986, about 2.7 percent for food at home and 3.9 percent for food away from home, because of stable wages, prices, input costs, and profit margins. For the first time in 9 years, the Consumer Price Index (CPI) for food may increase more than that for nonfood goods and services due to sharply lower energy costs. If energy costs are excluded, food price increases will likely be lower than nonfood price increases.

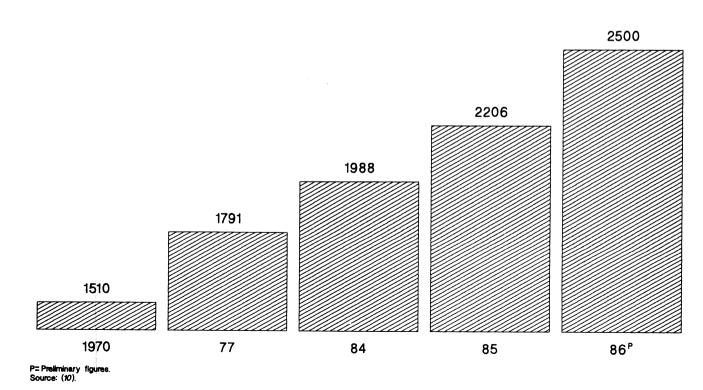
Food sales through the U.S. food marketing system as a percentage of disposable personal income (DPI) may fall to less than 14 percent in 1986. The smaller portion of DPI allocated to food reflects the inherent slow growth characteristic of the food marketing system and explains many of the behavioral developments in 1986. These developments relate to the continued competition for the U.S. food dollar in the stable but slow-growing food marketing system.

Competition to acquire a greater share of the food dollar is reflected not only within each industry in the system but also among industries. between the two retailing industries, grocery and food service, appears to be headed for a standstill in 1986. Food service will likely acquire 43 percent of total consumer food expenditures, unchanged from 1985, perhaps indicating diminished growth in increased market share and continued expansion of grocery retailing into the foodservice area. Types of grocery outlets are changing, fast food franchises are gaining shares in eating place sales, food wholesalers are continuing their forays into retail grocery outlets, and food manufacturers are battling for scarce space on supermarket shelves. Nearly 2,500 new products will be introduced in 1986 (fig. 1), and advertising expenditures by food marketing firms in 1985, at \$9 billion, averaged 11 percent above those of 1985 (fig. 2). Food is the most advertised of all consumer products. Whereas food sales now account for 14 percent of the Nation's disposable income, the food system accounts for about 28 percent of advertising expenditures. For the first 6 months of 1986, the system's advertising expenditures averaged only 6 percent above the first half of 1985. The deceleration largely mirrors slower advertising activity throughout the American economy.

Within this behavioral framework, mergers arise as one of the most important structural developments within the food marketing system in 1986 and in the long run.

Mergers and acquiitions in the four food marketing sectors in 1985 rose 63 over those of 1984 to a near-record level of 480: 291 in food processing, 73 in food service, 64 in food wholesaling, and 52 in food retailing (the only sector in

Number of New Product Introductions



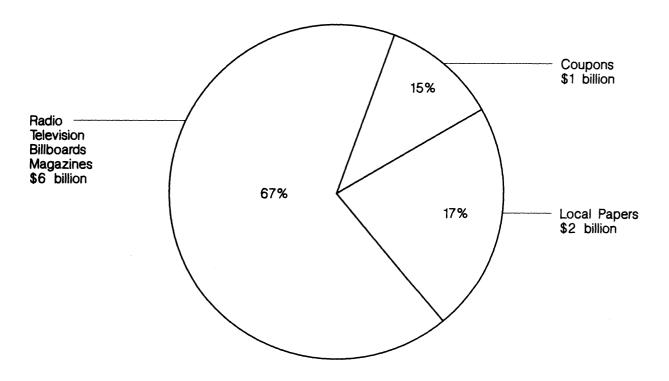
which mergers dropped from those of 1984 when they totaled 60) (fig. 3). With-in the category of large mergers (those costing \$100 million or more), food marketing accounted for 25, 6 of which were among the 100 largest transactions in history, 3 of which (Philip Morris-General Foods; Kohlberg, Kravis, Roberts, and Company-Beatrice; and R. J. Reynolds-Nabisco) each cost about \$5 billion or more.

But, food marketing mergers are often short lived. Divestitures of previously acquired companies were also quite high during 1985. A number of conglomerate firms, such as Beatrice, Sara Lee, and IC Industries, sold some of their food marketing operations. Dart and Kraft, which merged in 1981 and was the sixth largest merger in food marketing history, announced that they will again separate.

Food marketing mergers during the first 9 months of 1986 exceeded the very high levels of 1985, but the magnitude of the mergers appears to be lower (table 1). Megamergers (PepsiCo-RJR Nabisco's subsidiary Kentucky Fried Chicken; Marriot-Saga; and Kohlberg, Kravis, Roberts, and Company-Safeway) occurred in fall 1986. Proposed horizontal mergers between Coca-Cola and Dr Pepper and between Pepsi-Cola and Seven-Up were dropped after the Federal Trade Commission (FTC) challenged them.

Continued merger activity will continue to contribute to the declining number of food marketing firms although the number of small, single establishments would continue to drop even without mergers. According to the 1982 Census of Manufactures, the number of companies in food processing, retailing, and food service dropped from the previous 5-year census. Only food wholesaling gained, largely

Figure 2 Food Marketing Advertising, 1985

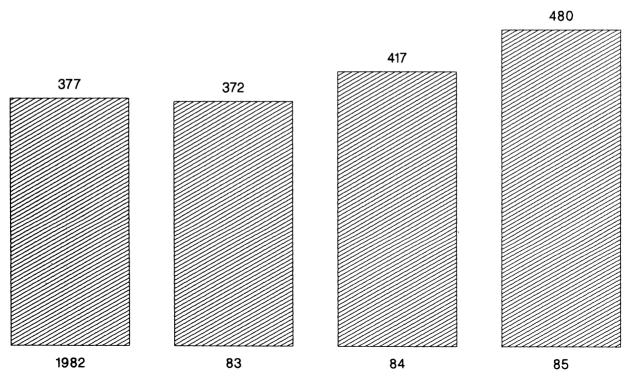


Source: (1,7,22)

reflecting increased small specialty wholesalers. Food marketing firms declined from nearly 479,000 to 445,000 (app. table 15). Data since the census indicate that the number of firms and establishments in food marketing continues to decline in 1986. These changes since the 1982 census will be confirmed in the 1987 census. The economic effect of this decline on farmers, consumers, and the food marketing system is unclear. Fewer firms service the food system, which is responsible for distributing 80 percent of U.S. agricultural output and accounting for one-tenth of GNP. However, this phenomenon is fairly widespread throughout American industry. In addition, a diminishing number of firms does not necessarily mean less competition. Food processing is essentially 49 different industries, ranging from meatpacking plants to pickling plants. degree of concentration differs by industry. The four largest sausage processors accounted for 19 percent of shipments in the latest census, while the four largest chewing gum manufacturers accounted for 95 percent of shipments. For food retailing and wholesaling, concentration at the local level is of greater significance than national concentration. Moreover, within each of these three major industries industries, economies of scale (the right size to bring about the highest market efficiency) are unclear.

Direct foreign investment into the U.S. food marketing system reached \$15 billion in 1985, with over \$11 billion to food processing, slightly more than \$1 billion to wholesaling, and about \$3 billion to foodstores and restaurants (app. table 32). Foreign investment in 1985 exceeded 1984's level by \$2.9 billion, due almost entirely to food processing. Investments in foreign countries by the U.S. food marketing system rose from \$10.5 billion in 1984 to \$11.8 billion in 1985, with U.S. food processors accounting for \$9.3 billion; wholesalers, nearly \$1 billion; and food stores and restaurants, \$1.5 billion.

Number of Food Marketing Mergers



Source: (6).

Table 1--Food business mergers and acquisitions in the first 9 months of 1986

Category		: al number : cquisitions:	Numbe indiv purch	idual			: : Acquisition of firm :outside food industr :
	: : 5	(10)	5	(10)	5	(10)	0
Bakers	: 12	(12)	8	(10)	10	(11)	1
Brewers	: 6	(4)	2	(3)	4	(4)	1
Brokers	: 19	(18)	19	(16)	19	(18)	0
Confectioners	: 5	(2)	5	(2)	5	(2)	0
Dairy processors	: 6	(13)	6	(9)	5	(13)	0
Diversified firms with interests	:						
in the food industry	: 34	(23)	20	(18)	0	0	12
Food processing firms	: 75	(73)	48	(38)	74	(65)	7
	: 25		14	*	25		0
Hotel and lodging companies	: 4	(8)	3		4	·	0
Meat packers	: 5	(4)	5		5		0
Nonfood packagers selling	:					` .	
through supermarkets	: 3	(4)	2	(4)	2	(4)	3
Packaging suppliers	: 24	(19)	21	(13)	22	(19)	0
Poultry processors	: 8	(6)	7	(6)	8	(6)	0,
Primary products companies	: 14	(8)	13	(8)	13	(8)	1
Restaurant and foodservice concerns	: 35	(42)	30	(27)	34		1
Retailers:	:			, ,			
Convenience	: 16	(17)	14	(15)	16	(14)	0
Supermarket	: 28	(14)	27	(12)	28	(11)	0
Other	: 9	(6)	8	(6)	0		0
Seafood processors	: 3	(2)	3	(2)	3	(2)	0
Snack food processors	: 1	(7)	1	(7)	1	(7)	0
Soft drink bottlers	: 11	(11)	6	(4)	11	(8)	2
Sugar refiners	: 2	(2)	2	(2)	2	(1)	0
Suppliers to the food industry	: 7	(17)	7	(16)	7	(15)	0
	: 79	(91)	79	(91)	0	0	35
Wholesalers	: 33	(29)	22	(22)	30	(28)	3
Foreign firms buying U.S. firms:	:					•	
Canadian firms	: 10	\ <del>-</del> /	8	(4)	0	0	2
Other foreign	: 37	(36)	32	(29)	0	0	9
Total	: 516	(498)	414	(392)	333	(318)	77
	<b>:</b>						

Note: Numbers in parentheses indicate number of transactions through the first 9 months of 1985.

Source: (5). Underscored numbers in parentheses refer to items in the references.

#### FOOD MANUFACTURING

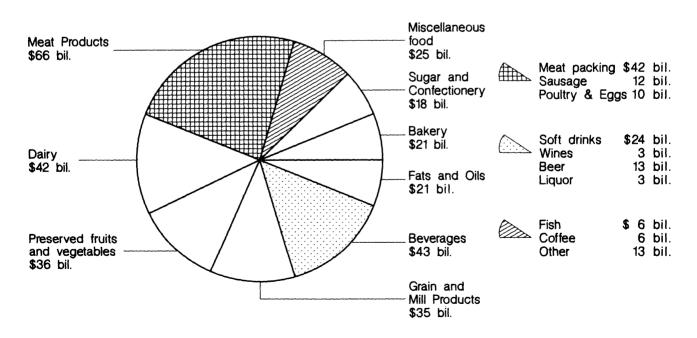
U.S. food processing industries have operated within a climate of wage and price stability in 1986, with a continuance of the heavy merger and divestiture activity of the preceding 2 years. New capital expenditures will likely reach an alltime high, and capacity utilization, which rose in 1985, appears to be headed for another increase in 1986. Food shipments for 1986 exceed those of 1985 by 6 percent, and the balance of trade deficit for processed foods appears to be below the 1985 high. Advertising expenditures for the first 3 months of 1986 are running 4 percent above the same period in 1985, while new product introductions and extensions will likely exceed 2,500 by the end of 1986.

# Growth

The 49 U.S. food processing industries, ranging from meatpackers to breweries, are projected to reach sales (value of shipments) of about \$315 billion (app. table 7). This represents an increase of about 3 percent above the \$307 billion of 1985 (fig. 4). However, growth varies among different food processing industries. For example, growth rates in 1985 ranged from a 4-percent drop for meatpacking to a 5-percent increase for beverages processing.

Food processors will likely purchase over \$110 billion of raw materials in 1986, including \$85 billion of U.S. agricultural products, \$15 billion of imported foods, and \$9 billion of seafood. Food processors likely will add \$82 billion of value, up about 5 percent above the estimated 1985 value (table 2). This value added includes production and managerial labor, energy, profits, packaging,

Value of Food Processing Shipments, 1985<sup>1</sup>



1/ Percentages do not add due to rounding. Source: (55)

advertising, interest, and other processing costs involved in changing raw agricultural products to food products. However, the degree of processing (value added) varies among the food processing industries. Foods with the lowest domestic farm value require the highest degree of processing (table 2). The meat, poultry, and fish processors will account for \$12.3 billion, or 15 percent, of value added in 1986, although products in these industries account for 33 percent of consumer food expenditures. Dairy processors will account for 12 percent of value added; fruit and vegetable processors, 10 percent; and beverage processors, 25 percent.

# Trade and Foreign Investment

U.S. food processing industries for 1986 appear to be headed for the fourth consecutive trade deficit (app. table 33). This year's projected deficit will be down slightly from the \$5.7-billion deficit of 1985. If seafood processing is excluded, the deficit will be \$2.4 billion. Exports by U.S. food processors normally account for about 5 percent of processed food shipments but nearly 40 percent of our agricultural exports. U.S. processed food generally runs a sharp deficit for such high-value foods as alcoholic beverages, confectionery products, and preserved fruits and vegetables. Partially offsetting this deficit are major trade surpluses for grain mill products (rice, flour, wet corn milling, prepared animal feeds) and most fats and oils. The decline in the value of the U.S. dollar should help expand export growth, but increased competition from other agriculture-producing countries and a corresponding decline in the exchange rates of many developing countries serve to offset the positive effects.

In recent years, U.S. Government and private agencies, including the U.S. Department of Agriculture (USDA), have been encouraging exports of high-value processed foods through trade shows, technical assistance, and promotion aid. However, many leading U.S. processing firms already have extensive overseas operations. Foreign investment by U.S. food processing firms rose from \$8.2 billion in 1984 to \$9.3 billion in 1985, with earned income of \$1.5 billion (app. table 32).

Table 2--Value added to food processing, by industry

	:	:	1077		:	100/	:	1005	:	1006
Industry	:	1972:	1977 :	1982:	1983:	1984	:	1985	:	1986
	<u>:</u>	<u>:</u>		<del></del>	<u>:</u>		<u>:</u>		<u>:</u>	
	:									
	:			<u>Bi</u>	1lion d	ollars				
	:									
Meat, fish, and poultry	:	4.55	6.88	9.97	11.59	11.23		11.97		12.30
Dairy product	:	3.25	5.24	7.83	8.53	8.41		9.57		9.97
Grain and oilseed	:	7.17	10.33	14.84	17.73	17.10		18.05		18.78
Fruits and vegetables	:	2.80	4.23	6.19	7.09	6.90		7.51		7.79
Sugar and confectionery	:	1.93	2.85	4.10	4.84	4.65		4.85		4.90
Beverage	:	8.25	11.51	16.33	20.13	19.31		19.85		20.47
Other food	:	2.65	3.97	5.77	6.69	6.50		7.00		7.26
	:									
Total	:	30.60	45.01	65.03	76.60	74.10		78.80		81.47
	:									

Source: (30).

For example, CPC International has 85 plants in 47 foreign countries and 30 plants in the United States. Nearly 58 percent of the company's 1985 \$4.2 billion in sales came from its foreign subsidiaries. Nearly 40 percent of H. J. Heinz' 1985 sales of \$4 billion also came from abroad; the company has 27 domestic operations and 32 foreign.

# Capital Expenditures and Capacity Utilization

Plant capacity utilization and capital expenditures in food processing are more stable than those in other industries because food demand is more stable. However, new plant and equipment expenditures in 1985 rose \$1.5 billion to \$10.3 billion, resulting in a 12-percent increase after adjusting for inflation (app. table 31). Food processors will spend nearly \$10.5 billion on plants and equipment in 1986. These increases largely reflect the trend towards more automation in this capital-intensive industry. Some of this spending will also replace capacity with newer, more technologically advanced plants rather than net additions to capacity.

Whereas plant capacity utilization in most U.S. manufacturing industries showed no change in 1985, utilization in food processing industries increased. The capacity utilization rate in food processing industries rose from 76 percent during the fourth quarter 1984 to 79 percent during fourth quarter 1985 (app. table 31). Data for the first quarter of 1986 indicate a slight increase from first quarter 1985 levels. According to the Federal Reserve Board, an increase in capacity largely offset a 2.5-percent increase in output.

# Costs

The economic climate of 1985 favored the food processing industries, and 1986 appears to be following a similar course. Farm prices in 1986 likely will average 5 percent below these of 1985, reflecting a 13-percent drop in crop prices and a 2-percent increase in livestock prices. Meatpackers are paying 2 percent less for beef, but 10 percent more for pork. Milk prices dropped 1 percent during the first 9 months of 1986 from year-earlier levels, while fruit prices fell 10 percent. Prices of imported foods rose 15 percent above the first 9 months of 1985 due to higher exchange rates and a sharp increase in coffee bean prices. Prices for processed food exports correspondingly dropped 14 percent, reflecting a decline in the value of the U.S. dollar against major currencies.

Labor costs also rose moderately during the first 6 months of 1986, continuing the trend of the mid-1980's. Employment in the processing of food and kindred products increased about 1 percent above the first 6 months of 1985 to roughly 1.6 million employees. Employment rose for nearly all industries except frozen foods and poultry. Average hourly earnings, which had been rising sharply during the early 1980's, continued their deceleration of the mid-1980's in the first 6 months of 1986. Wages for the first 6 months of 1986 averaged 1.5 percent above the same period a year earlier; thus, real earnings slightly declined.

Energy prices for the first 9 months of 1986 are averaging about 15 percent below prices in the same months of 1985. Packaging material prices also showed a 2-percent year-to-year increase. Interest rates have continued to decline throughout the year; short-term borrowing costs fell from 9.5 percent in mid-1985 to 8 percent in September 1986.

Advertising expenditures by food processors have been rising sharply, increasing nearly 11 percent between 1984 and 1985 to \$4.8 billion for the seven media (app. table 29). In addition, the redeemed value of food manufacturers' coupon and newspaper advertising both rose about 13 percent. However, for the first 6 months of 1986, food processors' seven-media advertising advanced only 4 percent from the first half of 1985, rising from a level of \$2.3 billion to \$2.4 billion. The \$100-million gain reflected a \$50-million increase for dairy advertising due to a major promotion by the National Dairy Promotion Board. Advertising of convenience foods, wine, and beer also increased sharply, while bakery products, beverages, soft drinks, liquor, and confectionery declined.

# Structure and Organization

Food manufacturing is one of the more concentrated industries within the U.S. manufacturing sector. In 1967, the 50 largest firms, the next 450 firms, and another 26,000 firms each produced one-third of total output. By 1982 (the latest census year), the 50 largest firms produced about 45 percent of all output, while the next 450 firms maintained a 33-percent output share. The remaining firms had fallen to 16,600, their share of output reduced to less than 25-percent of total output.

The degree of market concentration varies among the 49 basic food industries (table 3). Concentration data from the 1982 Census of Manufactures, released in early 1986, revealed diverse trends for both number of firms and concentration by industry (table 3). Specific findings were:

- o <u>Meat, poultry, and fish.</u> Meat, poultry, and fish (excluding canned seafood) processing industries are among the least concentrated. The leading four firms in poultry, sausage, and fresh seafood processing accounted for 20 percent of shipment value in 1982, while meatpackers had a four-firm concentration ratio of around 30 percent. The number of companies declined rather sharply for all industries, except poultry processing, between 1977 and 1982.
- o <u>Dairy</u>. The dairy industries are also among the least concentrated food processing industries at the national level. Because fluid milk markets tend to be localized, these figures are less meaningful. Nevertheless, between 1977 and 1982, four-firm concentration ratios dropped for every dairy industry, except that for condensed and evaporated milk. The leading four firms controlled less than one-sixth of all milk production, while the ratio was about one-third for cheese and condensed milk. The number of companies in each of the industries continues a long-term decline. Fluid milk companies fell from nearly 3,000 in 1967 to about 850 in 1982, while the number of butter companies fell from over 500 to about 40.
- o Processed fruits and vegetables. Concentration varies sharply among the processed fruit and vegetable industries. The largest four firms control well over 50 percent of output for both canned specialties, and pickles, sauces, and salad dressings, but about 20 percent for canned fruits and vegetables and 27 percent for frozen fruits and vegetables. The number of companies declined for all industries, except for frozen fruits and vegetables, between 1977 and 1982.
- o Grain mill products. These industries include some of the most concentrated among all food processors. The leading four breakfast cereal

Table 3--Share of shipment value for the four and eight largest food processing firms

	:	1982		:	1977		:	1967	
	: :	Share		: :	Share		:		
Industry	: Total :	shipment		: Total :_	shipment		_: Total :		
	: firms :	Four :		: firms:	Four	: Eight	: firms :		Eight
	:	largest :	_	:	largest		:	•	largest
<del></del>	<u>: : : : : : : : : : : : : : : : : : : </u>	firms :	firms	<u>: : : : : : : : : : : : : : : : : : : </u>	firms	: firms	<u>:</u>	firms :	firms
	: Number	Perce	ent	Number	<u>Per</u>	cent	Number	Percer	<u>nt</u>
Meatpacking	: 1,658	29	43	2,404	19	37	2,529	26	38
Sausages	: 1,193	19	28	1,213	23	30	1,294	15	22
Poultry dressing Poultry and egg	: 231	22	36	313	16	27	NA	NA	NA
processing	: 136	22	35	124	21	35	NA	NA	NA
Butter	: 61	41	61	123	49	66	510	15	22
Cheese	<b>:</b> 575	34	47	660	35	48	891	44	51
Condensed and evaporated milk	: 132	35	50	167	30	46	179	41	56
Ice cream	: 482	22	34	567	28	40	713	33	43
Fluid milk	: 853	16	27	1,516	18	28	2,988	22	30
Canned specialties	: 171	62	77	172	63	77	150	69	83
Canned fruits and	:								
vegetables	: 514	21	35	648	22	35	930	34	52
Dehydrated fruits	:								
and vegetables	: 119	42	59	143	37	53	134	32	50
Pickles, sauces, and	:								
salad dressing	: 325	56	65	380	55	62	479	33	44
Frozen fruits	:	0.7							
and vegetables	: 195	27	42	187	22	40	495	36	55
Frozen specialties Flour and grain	: 318	38	54	330	40	55	NA	NA	NA
milling	· : 251	40	60	301	33	54	438	30	46
Breakast cereals	: 32	86	na	32	89	98	30	88	97
Rice milling	: 49	47	75	47	51	76	54	46	68
Blended and prepared	:		, •	•••		. •	•		•
flour	: 91	58	74	111	51	69	126	68	82
Wet corn milling	: 25	74	94	24	63	89	32	68	89
Pet food	: 222	52	71	218	58	74	NA	NA	NA
Prepared feeds	: 1,245	20	30	1,435	22	30	NA	NA	NA
Breads and cakes	: 1,869	34	47	2,549	33	40	3,445	26	38
Cookies and crackers	: 269	59	71	263	59	68	286	59	70
Raw cane sugar	: 43 : 19	41 65	61 91	49	42	62	61	43	65
Cane sugar refining Beet sugar	: 19:	67	91 95	27 14	63 67	90 95	22 15	59 66	82 96
Confectionery	: 718	40	53	867	38	49	1,091	25	35
Chocolate and cocoa	: 77	75	89	47	73	88	27	77	89
Chewing gum	: 9	95	na	14	93	na	19	86	96
Cottonseed oil mills	: 47	51	70	62	45	62	91	42	60
Soybean oil mills	: 52	61	83	65	54	73	60	55	76
Vegetable oil mills	: 26	52	83	37	54	80	34	56	78
Animal and marine	:								
fats and oils	: 270	34	48	384	28	40	477	28	36
Shortening and	:								
cooking oils	: 79 : 67	43 77	60 94	66	43	63	63	43	67
Malt beverages				81	64 50	83	125	40	59
Malt Wines, brandy	: 24	60 51	80 64	27 233	59 49	81 62	32 175	39 48	62 63
Distilled liquor	: 371	46	89	64	52	71	70	54	71
Bottled and canned	:	,,	0,	0.4	32	, <b>.</b>	, 0	34	, <u>-</u>
soft drinks	: 1,236	14	23	1,758	15	22	3,057	13	20
Flavoring extracts	:			•			,		
and syrups	: 297	65	71	319	64	71	401	67	75
Canned or cured	:								
seafood	: 170	62	70	215	52	65	268	44	59
Fresh or frozen	:								
seafood	: 697	14	24	906	14	23	463	26	38
Roasted coffee	: 118	65	76	133	65	79	206	53	71
Manufactured ice	: 530	18	26	543	24	38	688	33	42
Macaroni and spaghetti	: 208	42	66	189	36	54	190	31	48
Other food	. 200	74	00	107	30	J4	190	31	70
preparations	: 1,746	32	40	1,872	28	36	1,824	24	35
NA = Not available	· · · · · · · · · · · · · · · · · · ·				<del>-</del>	—— <del></del>			

NA = Not available.
Source:  $(\underline{45})$ .

producers accounted for 86 percent of production in 1982, down slightly from 1977. The ratio for wet corn milling rose from 63 to 74 during the same period. However, the four leading pet food producers accounted for 52 percent of output in 1982 compared with 58 percent in 1977. Prepared feeds had a 20-percent four-firm concentration ratio in 1982, down from 22 percent in 1977.

- o Bakery products. Like that for dairy products, much of the market for bakery products tends to be localized, thus lessening the significance of national concentration ratios. The leading firms accounted for about 33 percent of production for bread and cakes and about 60 percent for cookies and crackers. Neither showed much change from 1977. The number of bread and cake companies, however, dropped from 3,500 in 1967 to under 1,900 in 1982.
- o Sugar products. The number of companies declined for every industry in this category, except those for beet sugar and chocolate and cocoa, both of which are highly concentrated. The number of chewing gum manufacturers fell from 14 to 9, while the four-firm concentration ratio rose from 93 to 95. Concentration also increased for cane sugar refineries and confectionery processors.
- o <u>Fats and oils</u>. The number of firms for all fats and oils industries declined, except those for shortening and cooking oils, which rose from 66 to 79. Four-firm concentration remained constant at 43 for shortening and cooking oils but rose from 54 to 61 for soybean oil producers.
- o Beverages. Among beverage processors, only soft drink bottlers had a low four-firm national concentration ratio--14 percent. The number of firms, however, in this largely local market industry dropped from over 3,000 in 1967 to about 1,200 in 1982. The number of breweries declined from 125 to 67 during that period, while four-firm concentration rose from 40 to 77. The number of wineries conversely rose from 175 to 324, while four-firm concentration also increased from 48 to 51.
- o Others. The leading four firms accounted for nearly 66 percent of output for both flavoring extracts (largely soft drink syrups) and roasted coffee in 1982, and both industries continue to lose firms. Concentration among macaroni processors continues to rise, going from a ratio of 31 in 1967 to 42 in 1982.

#### Mergers and Divestitures

The food manufacturing industries have engaged in much merger and divestiture activity over the past few years. The food and beverage industry ranked near the top of all manufacturing industries in the number of mergers in 1984 and 1985.

In 1985, 23 mergers with a price of \$100 million or over took place in food manufacturing. Among these were the three largest mergers in food processing history: Philip Morris Companies bought General Foods; Kohlberg, Kravis, Roberts, and Company bought Beatrice Companies; and R. J. Reynolds Industries, Inc., bought Nabisco. The 23 mergers had a total financial consideration of nearly \$25 billion.

According to the Food Institute, 291 mergers took place in food processing in 1985 (fig. 5). Of these, the acquiring company was a U.S. food manufacturing company in over 212 mergers. The acquiring company was outside U.S. food manufacturing in 79 cases (table 4). Food processing also had 103 divestitures, illustrating that all mergers are not permanent. Because some firms assumed

Number of Food Processing Mergers, 1985

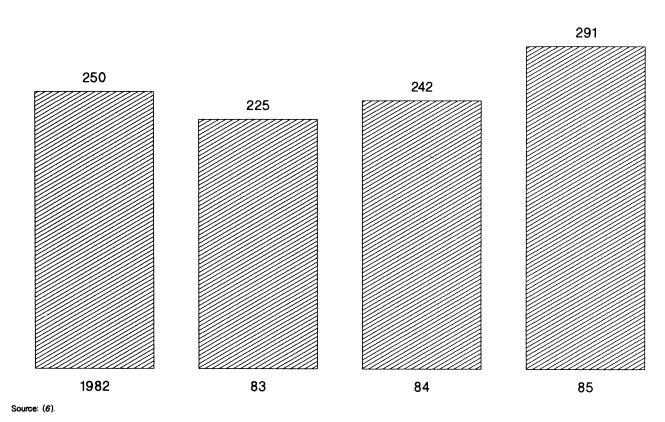


Table 4--Mergers and divestitures in food manufacturing

	; ;_			Acquiring compa	ıny		:	
Year	:			:	:		-:	Divestitures
	:		U.S.	: Company	:	Total	:	
	:	food	manufacturing	: outside U.S. f	ood :		:	
	:		company	: manufacturin	ıg ;		:	
	:							
	:			Nun	nber			
	:			<del></del>	<del></del>			
1982	:		165	85		250		120
1983	:		174	51		225		85
1984	:		178	64		242		100
1985	:		212	79		291		103
	:							

Source: (6).

heavy debt loads to finance acquisitions, they are now selling assets to raise cash for debt repayment. In addition, a number of firms are restructuring internally after acquisitions. Dart and Kraft, which merged in 1981, recently announced that they will again separate.

Why the merger interest in a slow growth industry? Food processing industries are more stable than most industries. Consumers tend to keep food expenditures steady during recessions. Thus, profits, employment, and capital expenditures in food manufacturing are steadier than in other industries, falling less during recessions and rising less during expansions.

This stability can benefit firms outside of food manufacturing, especially those in more cyclical industries. Firms in related industries, such as the tobacco industry, with established marketing channels, can increase their clout for gaining scarce shelf space by merging with food companies. Because brand names are so important, firms can benefit more from buying existing product lines than from penetrating the market with costly new products. Mergers can improve market share and economies of scale of firms within the same type of food manufacturing (for example, two meatpackers).

However, antitrust authorities usually block large horizontal mergers between leading firms that may lessen competition. For example, the Federal Trade Commission (FTC) has recently challenged proposed mergers between Coca-Cola and Dr Pepper and between Pepsi and Seven-Up. Many smaller firms join in horizontal mergers, particularly in local industries, such as bakery products or dairy, to achieve greater size economies of production and distribution.

Merger activity over the past few years has been widespread throughout American industry. About 3,000 mergers took place in 1985, the highest in 12 years. Three factors have encouraged mergers throughout American industry, including food manufacturing: availability of funds, policy initiatives toward a more free market approach, and the attraction of foreign buyers. First, deregulation in the early 1980's provided a source of more funding, as did the creation of "junk" bonds, a higher risk, lower quality type security. In addition, tax laws favor borrowing for acquisition purposes. Second, public policy has encouraged a free market approach by stressing efficiency rather than size and by allowing vertical combinations between suppliers and wholesalers. Also, the merger guidelines of the U.S. Department of Justice raised the level of allowable market concentration. Third, foreign buyers, encouraged by the weakening of the U.S. dollar and improved economic conditions in Europe, have been more active in U.S. acquisitions. Food processing ranked near the top as a target of foreign interest in 1984 and 1985.

Merger activity in the first 9 months of 1986 appeared to be keeping up with the brisk level of 1985, but the number of mega-mergers appeared to have subsided, reflecting reduced merger possibilities following the heavy activity of 1984-85. Many firms involved in mergers are reassessing marketing policies and restructuring internally.

The number of food manufacturing establishments has been declining along with the number of companies. The 1982 census showed 22,130 establishments in the 49 food processing industries, a drop of about 5,500 from those of 1967 (app. table 8). The decline reflected a drop in about 40 of the 49 food processing industries. The number of establishments increased in industries that process fruits and vegetables, wines and brandies, flavoring extracts, chocolate and

cocoa, and shortening and cooking oils. The number of local market establishments, such as those for dairy and bakery products, declined the most rapidly.

The number of food processing establishments covered by unemployment insurance fell from 24,180 in 1982 to 23,600 in 1985, according to the Bureau of Labor Statistics (BLS) (app. table 9).

# Performance

The food processing industries of 1986 are characterized by stable prices, higher profits, and the rapid introduction of new products. First, stable farm prices and slowly rising marketing costs in 1986 have been translated into moderate price increases at wholesale. The Producer Price Index (PPI) for processed food and feed for the first 6 months of 1986 averaged 2.5 percent above the first 6 months of 1985. Second, after-tax profits for food and tobacco processing firms as a share of sales appear to have remained about the same between the first half of 1986 and first half of 1985 (app. table 28).

Third, new product introduction has continued at a heavy pace. About 1,800 new products were introduced in 1983, nearly 2,000 in 1984, and over 2,200 in 1985. For the first 7 months of 1986, product introductions were about 15 percent above the 1,100 of the same period in 1985. Beverages, breakfast cereals, candy and gum, frozen foods, and health and beauty aids continue to be leaders in new product introduction, but new processed meat products rose sharply in 1985 and 1986.

The BLS labor productivity index (output per employee hour) continues increasing for a number of food processing industries. Sharp increases in output of soft drinks, beer, sugar, dairies, and processed fruits and vegetables likely reflect increases in capital per worker and added employee skills (app. table 26). The stability of food manufacturing production also contributes to steady productivity growth. Capital expenditures in these industries have risen at a moderately high rate, while the number of employees has stayed about the same.

#### FOOD WHOLESALING

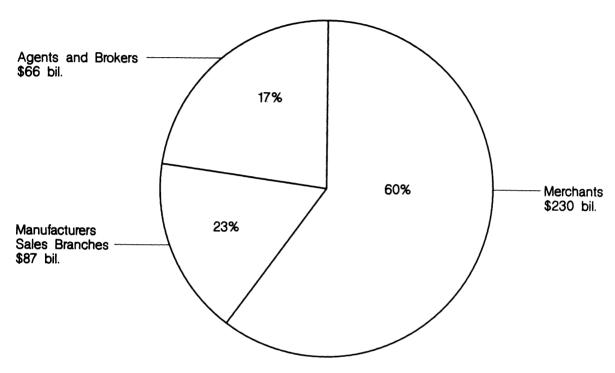
Mergers in the food wholesaling industry continue with the largest firms buying other large distributors, thus positioning the buyers in new regions. This pattern is in contrast to the localized acquisitions of the late 1970's and early 1980's. National foodservice distributors emerged in the early 1980's and continue to increase in number. Sales concentration continues to rise in both national and local wholesale markets. With food as one of the major product lines, wholesale clubs are growing and serving small businesses and group members, signaling possible far-reaching changes in distribution channels. Wholesale food sales continue to rise, and wholesale food firms sustain their profitability.

## Sales

Wholesale food volume will probably reach \$383 billion in 1986 (fig. 6). Through the third quarter of 1986, wholesale merchants' sales alone were running at an annual rate of \$230 billion. If this growth continues throughout the year, as is likely, wholesale sales originating with merchants will increase 6 percent from those of 1985. Sales of manufacturers' sales offices and brokers, the other major wholesale groups, also continue to rise, and should add \$153 billion in 1986.

In 1982, manufacturers distributed 22 percent of groceries and related products through wholesale channels, a share that remained fairly constant since 1967 (table 5). Sales from manufacturers' branches grew somewhat faster during 1967-82 than the total wholesale average as manufacturers added local offices and increased shipments in response to expanded demand.

Wholesale Sales by Sector, 1986 V



1/ ERS projections. Source: (48, 52),

Table 5--Wholesale food sales, by type of wholesaler

	:		:	·	:		:		:		:		:		:
	:		:		:		:		:		:		:		:
Type of wholesaler	:	1967	:	1972	:	1977	:	1982	:	1983	:	1984	:	1985	: 1986
	:														
	:					<u>Bi</u>	1	lion d	o1	llars					
	:														
Merchants	:	43.3		64.0	:	111.6	1	L74.7		190.3	i	208.9	)	216.0	1/229.7
Manufacturers' sales	:														
branches	:	15.1		21.7		41.6		63.9	1	1/69.0	ı	1/74.5	5	1/80.4	1/86.9
Agents and brokers	:	15.9		20.6		29.7		50.0	1	Ī/53 <b>.</b> 5		$\frac{1}{1}/57.2$	2	1/61.2	$\overline{1}/65.5$
	:								_	_		_			_
Total	:	74.3	1	.06.3	1	L82.9	2	288.6		312.8		340.6	,	357.6	1/382.1
	:														_

1/ ERS estimates.

Sources: (48, 52).

Sales originating in manufacturers' sales branches grew 8 percent annually during 1967-82. In the absence of sales data on these units since 1982, interim sales estimates are based on the assumed continuance of the long-term growth rate. On that basis, 1986 sales are estimated to reach \$86.9 billion.

Brokers accounted for 17 percent of wholesale food sales in 1982, reversing a decline in share from a high of 21 percent in 1967. The shift by manufacturers from sales through brokers to sales through their own facilities caused the decline. Brokers' services are often speedier and more economical than than those of manufacturers' own sales forces. In addition, brokerages are local businesses that have up-to-date market information from dealing with several manufacturers and handling an array of product lines. Because of their flexibility and adaptability, brokers will continue to be important factors in the wholesale grocery trade.

Average brokers' sales rose 7 percent annually in 1967-82. Based on this long-term growth, brokers' sales are estimated to reach \$65.5 billion in 1986.

# Structure and Organization

There were 64 mergers and acquisitions in 1985, a 73-percent increase from those of 1984 (app. table 17). Large wholesale distributors are acquiring other large wholesale firms and moving into new regions. This pattern is in contrast to the localized acquisitions of the late 1970's and early 1980's. Super Valu, the largest U.S. wholesale grocery distributor, expanded to the Pacific coast by purchasing the West Coast Grocery Company in 1985. Between 1982 and 1986, this industry leader also entered St. Louis and Milwaukee in the Midwest and Albuquerque and Denver in the West. Second-ranked Fleming Companies similarly strengthened its Western operation with acquisitions of United Grocers of California and Associated Grocers of Arizona, both large, established regional cooperative wholesale firms. Third-ranked Wetterau moved South and East with acquisition of the Creasy Company of Louisville and Cressey, Dockham, and Company of Massachusetts. Nash-Finch acquired the M. H. McLean distribution firm in North Carolina, thus moving into Southern markets.

Sales and earnings of the leaders have undoubtedly grown from acquisitions of high-volume regional distributors. For example, Associated Grocers of Arizona's merger with Fleming added over \$500 million to Fleming's sales.

Corporate stores also boost sales and earnings of parent firms. A striking example is Nash-Finch. Its retail stores accounted for around 42 percent of its total revenues in 1984, although these stores were only about 5 percent of the total served by the firm (26). Retail stores are long-term profit centers for some leading wholesale merchants, a factor that distinguishes the present involvement of these wholesale merchants with retail stores from that of earlier times when wholesalers passed on acquired units to independent operators.

National foodservice distributors emerged in the early 1980's and continue to increase in number. These national firms cater to restaurants, fast food outlets, airlines, institutions, and other providers of away-from-home feeding. They have grown by merging with other firms and by garnering a large share of an expanding market for food away from home. The leaders are the Sysco Corporation, CFS Continental, PYA Monarch, Rykoff-Sexton, and Kraft. Operating from 185 locations, these five firms had sales of \$7.9 billion in 1985 (5). Unlike their large counterparts that primarily service retail supermarkets, large national foodservice distributors face each other in few metropolitan markets,

and thus have greater expansion potential. Most foodservice distributors are still small operators who supply small, local customers.

Sales concentration continues to rise in both national and local wholesale markets. The strength and pervasiveness of the change in market concentration increases public concern because concentration can affect market performance. This concern is reflected in speculation about the plight of small retailers from the disappearance of the small distributors that formerly served them and about the possible adverse effects of mergers of regional wholesale firms with large national operations. The Economic Research Service (ERS) analyzed changes in sales concentration, particularly the role of mergers and entry in local markets (12). This analysis found that new entry significantly reduced average market shares of leading local firms, while entry by acquisition produced no perceptible change in market shares of leading firms. Concentration was as likely to rise in markets with low prior concentration as with high prior concentration. That is, large market shares in a prior period did not necessarily carry over to a later period. Further, sales concentration declined significantly in expanding markets.

Wholesale clubs, with food as one of the major product lines, are growing and serving small businesses and group members, signaling possible far-reaching changes in distribution channels. The first clubs appeared in 1976. 1986, 18 firms operated 170 units (table 6). With estimated sales volume of \$5 billion in 1985, these clubs sales are minor compared with volume of over \$300 billion moving through wholesale channels. However, they fill certain voids in the food marketing system and are likely to grow in importance where they supply special needs. For example, small foodservice operations and so-called "mom and pop" grocers, with their small orders and high servicing costs, are markets uniquely suited to service by wholesale clubs. Wholesale club outlets are patronized most frequently by foodservice operators with sales under \$100.000. Because these clubs have no minimum purchase orders, small foodservice operations and small grocery stores have an economical alternative to full-service distributors who impose minimums. Wholesale clubs also serve as secondary suppliers of independent supermarkets, the primary suppliers of which are large, general line distributors. In addition, they sell food, appliances, hardware, TV's and electronic equipment, clothing, and furniture to individuals whose employment by banks, credit unions, public utilities, and government agencies qualifies them for club membership.

Another development underscores the growing importance of wholesale clubs: large firms, such as Kroger, Wal-Mart, and Zayre, have recently entered the field, primarily by acquiring existing clubs. This is a significant development as these firms have the requisite resources for acquiring clubs and for undertaking the risks in experimenting with various formats. The comparatively small sales volume originating in these clubs masks their potential to affect food distribution.

#### Performance

Wholesale food firms sustain a solid profitability that embraces the range of wholesale businesses. For example, general line wholesalers had before-tax profits ranging between 14.6 percent (1983-84) and 18 percent (1982-83) of net worth (app. table 28). These rates probably reflect somewhat above-average firms and, to that extent, overstate industry profitability. Moreover, high returns could mean undercapitalized firms as could low returns reflect highly capitalized, but conservatively managed, operations. Finally, sampling errors

Table 6--Membership wholesale clubs

		As o	of July 1	986		-	ed as of cember
Item		st : South			: Total		: 1987 1/
:	<b>:</b>				Number		
Sam's Wholesale Club (Wal-Mart Stores, Inc.), Bentonville, AR	0	31	4	2	37	45	<u>2</u> /
The Price Company, San Diego, CA	0	3	0	22	25	30	40
Costco Wholesale Club, Seattle, WA	0	5	2	14	<u>3</u> /21	35	50
PACE Membership Warehouse, Denver, CO	1	13	2	4	20	25	35-90
Super Saver Wholesale Warehouse Club (A. Howard Wholesale), Monroe, LA	0	13	1	0	14	21	36
BJ's Wholesale Club (Zayre Corporation) Natrick, MA	8	1	3	0	12	15	25-27
The Warehouse Club (Pay 'N Save Corporation) Skokie, IL	0	0	9	0	9	14	19-21
The Wholesale Club, Indianapolis, IN	0	0	6	0	6	11	18-20
Value Club (Southwest Merchandising), San Antonio, TX	0	6	0	0	6	6	6
Price Saver's Wholesale Club (The Kroger Company), Salt Lake City, UT	0	0	0	5	5	9	<u>2</u> /
Cincinnati, OH	1	2	1	0	4	4	<u>2</u> /
Buyer's Club, Aurora, CO	0	0	0	2	2	3	12
Club Wholesale (Elixir Industries), Boise, ID	0	0	0	2	2	2	5
D-Mart Wholesale Club, Salt Lake City, UT	0	0	0	2	2	2	<u>2</u> /
Members Warehouse, Winston-Salem, NC	0	2	0	0	2	3	7
Wholesale Plus, Plantation, FL	. 0	1	0	0	1	1	1
American Wholesale Club, Richardson, TX	0	1	0	0	1	1	2/
Save Club, Concord, CA	0	0	0	1	1	1	<u>2</u> /
Total	: 10	78	28	54	170	228	<u>2</u> /

<sup>1/</sup> Company estimate as of July 1986.  $\overline{2}/$  No estimate available.  $\overline{3}/$  Costco operates two clubs in Canada, one in Alberta and one in British Columbia.

and likely measurement errors associated with these estimates are unknown. Even with these caveats, wholesale firms have sustained a remarkable profitability, and high profit levels probably will continue as long as the conditions that produced them prevail.

Wholesale profits remain high for a number of reasons: energy costs, particularly that of gasoline, have fallen from the peaks of the 1970's. Distributors' transportation costs, of which diesel fuel and gasoline are large parts, are exceeded only by their outlays for labor. Following a rapid rise in hourly earnings of wholesale workers in the late 1970's and early 1980's, earnings have now leveled off (app. table 24). The adoption of work standards in distribution centers is spreading. Electronic ordering and billing, exemplified in the Uniform Communication Standard (UCS), is increasingly accepted. A burgeoning demand has expanded real sales dramatically. In 1977-82, real sales rose at an annual compounded rate slightly under 3 percent compared with a 7-percent rate for 1982-85. Thus, the confluence of smaller cost increases, improved efficiency, and growing demand contributes to the profit performance of the industry's firms.

#### FOOD RETAILING

Real growth rates, traditionally low and stable in the food retailing industry, have increased significantly, amounting to 2.5 percent in both 1985 and 1986. Real foodstore sales grew more rapidly than real foodservice sales in 1985 and have grown at about the same rate in 1986. Real foodstore sales historically have increased only half as fast as real foodservice sales.

Supermarket sales continued to increase in 1985, reaching \$202.6 billion. Food retailers are building larger stores to accommodate expanded deli, bakery, seafood, and other service departments. A greater variety of nonfoods has also contributed to the sales growth of supermarkets as many food retailers move toward the one-stop shopping concept. Convenience stores continue to seek growth opportunities and now account for over 12 percent of grocery store sales.

Profits, measured as a percentage of stockholders' equity, averaged 13.8 percent in 1985, down from 16.2 percent in 1984. This decline, despite favorable real sales growth, may be partly due to heightened competition from low-cost ware-house style supermarkets. Merger activity retrenched from the very high levels of 1984. And, average hourly earnings fell in 1985, reflecting retailers' efforts to lower labor costs.

#### Growth

U.S. foodstores sales, including food and nonfood items, are projected to reach \$295 billion in 1986, up nearly 4.5 percent in current dollars over those of 1985. In real dollars, the 1986 increase is estimated at 2.0-2.5 percent, considerably above the population growth rate. Foodstore sales also grew rapidly in 1985, increasing 4.5 percent over those of 1984 in current dollars and 2.5 percent in real dollars.

What accounts for the above-average growth in real sales of foodstores during 1985-86? Three factors may help explain the recent growth in foodstore sales. First, the typical supermarket's size has increased nearly 30 percent since 1980, according to the Food Marketing Institute. Much of this increased space has been allocated to nonfoods. Broader product lines of household supplies,

floral departments, health and beauty aids, automotive supplies, greeting cards, clothing, hardware, and other general merchandise account for an increasing share of store sales.

Second, supermarkets and convenience stores are competing more with restaurants for the foodservice dollar. Retailers are aggressively seeking fast food business by offering an increasing variety of hot and cold prepared foods from service delis, soup bars, salad bars, service bakeries, sit-down eating areas, and even drive-through deli windows. Some supermarkets are hiring chefs to run their deli operations. Convenience stores also are emphasizing food service. Many convenience stores are expanding their selection of sandwiches, pastries, and deli items prepared in-store or in centralized commissaries. Some convenience stores are installing microwave ovens, grills, and other foodservice equipment. Others are developing licensing agreements that will allow them to sell items produced by well-known fast food chains. For example, the 7-Eleven chain is experimenting with agreements to sell Hardees' sandwiches and Church's Fried Chicken products in some of its convenience stores. In addition, some convenience store chains are introducing fast food sandwiches and pizza under their own brand name.

Third, food manufacturers are providing retailers improved quality, upscale packaged dinners, entrees, soups, and side dishes packaged in attractive serving containers that can go directly from the microwave oven to the table. Eliminating cooking utensils and cleanup chores makes these products an even closer substitute to eating out.

What does all this mean? The last two factors are helping to blur the at-home and away-from-home markets for food. Consumers are searching for convenient, inexpensive, quality meals to match their busy lifestyles. Apparently they are increasingly purchasing these meals from supermarkets and convenience stores as well as from restaurants and cafeterias. Also, food manufacturers and foodservice suppliers need to target the commissaries and in-store preparation facilities run by supermarkets and convenience stores as a growing market.

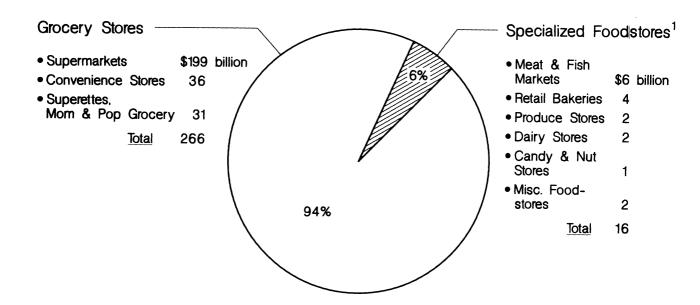
As evidence of this blurring of at-home and away-from-home markets, 1985 was the first nonrecession year since the 1950's that at-home food expenditures have outpaced away-from-home expenditures after adjusting for inflation. As a result, the at-home share of the food market remained essentially unchanged in 1985 from 1984's 57 percent. The at-home share of food expenditures declined steadily from 73 percent in 1960 to 57 percent in 1984, where it has remained for nearly 2 years. The away-from-home market share is expected to increase but at a much slower pace than it did before, with frequent pauses and even some backsliding.

# Structure and Organization

The basic segments of the food retailing industry are grocery stores and specialized foodstores. Together, they account for all foodstores, retail outlets having at least 50 percent of sales in food products intended for off-premise consumption (fig. 7).

The number of foodstores is declining, down 11,000 stores between 1977 and 1982, the most recent census year (47). This trend is expected to continue, with foodstores numbering about 237,000 in 1986 (table 7). Although multistore food retailers are growing, single-store retailers, accounting for about 70 percent

Flower 7
Foodstore Sales by Sector, 1985



1/ Parts do not add to total due to rounding. Source: (4)

Table 7--Number of foodstores

	:	: Gro	cery stores	: Special	ized foodstores
	:	:	: Share of	:	: Share of
Year	: Total	: Total	: total	: Total	: total
	:	:	: foodstore	s:	: foodstores
	:				
	: <u>Nu</u>	mber	Percent	Number	Percent
	:				
1958	: 355,508	259,796	73.1	95,712	26.9
1963	: 319,433	244,838	76.6	74,595	23.4
1967	: 294,243	218,130	74.1	76,113	25.9
1972	: 267,352	194,346	72.7	73,006	27.3
1977	: 251,971	179,346	71.2	72,625	28.8
1982	: 241,737	168,041	69.5	73,696	30.5
L983 1/	: 240,528	167,615	69.7	72,914	30.3
L984 1/	: 239,326	167,186	69.9	72.140	30.1
$1985 \ \overline{1}/$	: 238,129	166,755	70.0	71,347	30.0
1986 1/	: 236,938	166,322	70.2	70,616	29.8
	:			-	

1/ = ERS projection.

Source: (47).

of all foodstores in 1977, are declining at the rate of almost 2 percent per year (1977-82). Although much of the single-store retailer attrition is due to exit from the industry, some of these retailers grow to become multistore operators.

Grocery stores accounted for 70 percent of all foodstores in 1986. Supermarket (larger grocery stores) numbers increased 4 percent between 1982 and 1985 to 27,266 stores (table 8). However, the number of supermarkets is still below peak levels reached in 1977 as smaller conventional stores are replaced by larger format supermarkets. The remaining superettes, smaller grocery stores, and convenience stores totaled 139,489, or 83.6 percent of all grocery stores in 1985 (table 9).

Specialized foodstores, including bakeries, meat markets, produce markets, and dairy stores, account for the remaining 30 percent of foodstores, numbering about 70,616 in 1986. Specialized foodstores declined slightly between 1982 and 1986, indicating continued slow or negative growth prospects. With greater emphasis on one-stop shopping, specialized stores are losing customers to supermarkets.

## Sales by Segment

Grocery store sales accounted for 94.5 percent of foodstore sales in 1986, with specialized stores accounting for the remaining 5.5 percent (table 10). Specialized foodstore sales decreased 5.5 percent in 1985 to \$16.1 billion.

The share of grocery store sales held by chain stores in 1985 remained at peak levels reached in 1982 (table 11). The chain store share of sales steadily

Table 8--Number and sales of supermarkets 1/

:	Minimum annual	:	:		:	01	. 6
:	sales needed to	:	:		:	Shar	e or
Year :	classify as a	: Number	:	Sales	:_	grocery	stores
:	supermarket	:	:		:		:
:		:	:		:	Number	: Sales
:				Million			
:	1,000 dollars	Number		<u>dollars</u>		<u>Per</u>	cent
:							
1958:	747.0	15,282		23,562		5.9	53.9
1963:	762.9	21,167		31,484		8.6	59.9
1967:	825.7	23,808		43,433		10.9	66.7
1972:	1,000.0	27,231		64,960		14.0	69.6
1977:	1,545.3	30,831		113,111		17.2	75.0
1982:	2,313.2	26,640		175,655		14.4	74.5
1984:	2,451.2	26,947		194,403		16.4	75.3
1985 :	2,502.4	27,266		202,583		16.7	74.6
:							

<sup>1/</sup> To be classified as a supermarket, a grocery store had to generate annual sales of at least \$1 million in 1972; other years calculated using a price index of prices of all products sold in grocery stores. Sales include sales taxes, which are excluded from census figures after 1972.

rose up to 1982. Independent food retailers have not only survived but prospered during the 1980's despite concerns by analysts about their long-term viability and, particularly, their access to suitable store locations. The exit of some chain stores from entire markets and the transition from smaller to larger supermarkets have contributed to the supply of sites available to

Table 9--Number and sales of grocery stores, 1985  $\frac{1}{2}$ 

	: Num	iber	:	S	ales
Grocery store type	:	Share of	:		: Share of
	: Total :	total	:	Total	: total
	: Number	Percent		Billion dollars	
All grocery stores Supermarkets <u>2</u> / Smaller grocery stores	: 166,755 : 27,266	100.0 16.4		271.4 202.6	100.0 74.6
including superettes and convenience stores	: : 139,489 :	83.6		68.8	25.4

<sup>1/</sup> Sales include sales taxes, which are excluded from census figures after  $19\overline{7}2$ .

Source:  $(\underline{54})$ .

Table 10--Foodstore sales

	:		:_	Grocery	sto	res	:	Speciali	zed	foodstores
	:	Foodstore	:		:	Share of	:		:	Share of
Year	:	sales	:	Sales	:	foodstore	:	Sales	:	foodstore
	:		:		:	sales	:		:	sales
	:									
	:							Million		
	:	<u>Mill</u> :	ion	dollars		Percent		dollars		Percent
	:									
1958	:	50,263		43,696		86.9		6,567		13.1
1963	:	57 <b>,</b> 254		52 <b>,</b> 566		91.8		4,688		8.2
1967	:	69,371		64,215		92.6		5,156		7.4
1972	:	99,035		92,273		93.2		6,762		6.8
1977	:	157,941		147,759		93.6		10,182		6.4
1982	:	245,346		230,142		93.8		15,204		6.2
1983	:	254,878		239,054		93.8		15,824		6.2
1984	:	269,959		252,936		93.7		17,023		6.3
1985	:	282,198		266,103		94.3		16,095		5.7
1986 1/	:	294,615		278,359		94.5		16,256		5.5
	:	•		•				-		

<sup>1/</sup> ERS projection.

Sources: (47, 54).

<sup>2/</sup> Grocery stores with minimum annual sales of \$2,502,400 or more in 1985.

independent retailers. Independent food retailers may have slowed the sales inroads made by chainstores. Possible reasons for the success of independents include:

- o Their affiliation with full-service wholesalers able to equal the procurement and other integration advantages of chains.
- o Their growth through the use of large supermarket formats, such as the superwarehouse store.

Supermarkets (grocery stores with sales of \$2.5 million or more in 1985) decreased their share of grocery store sales slightly in 1985 to 74.6 percent, down 0.7 percent from those of 1984. The sales share of supermarkets would have been greater had gasoline sales by grocery stores (primarily convenience stores) been excluded from total grocery store sales (table 8).

# Supermarket Formats

The trend toward larger supermarkets continues, as indicated by the increasing importance of the superstore, combination store, and superwarehouse store formats. At the same time, conventional-sized supermarkets are declining as a share of total supermarkets and as a share of total supermarket sales (table 12).

The number of superstores more than doubled between 1980 and 1984, while combination food and drug formats tripled in number, although from a smaller base. The number of superwarehouse stores, including the new hypermarket format, also increased. The hypermarket is a one-stop shopping supermarket that brings together a broad variety of food and nonfood products in a single store of about 120,000 square feet. Conventional stores, the largest sales segment, decreased from 73 percent of supermarket sales in 1980 to 50 percent in 1984.

The importance of superstores to supermarket sales increased 10 percentage points over the 4-year period to 28 percent. The sales share of warehouse and limited assortment supermarkets grew almost 9 percentage points in 1984.

Food retailers continue to experiment and synthesize successful elements of supermarket formats with the result that distinctions among formats are becoming less clear. For example, the variety of products and services offered by

Table 11--Chain stores' share of grocery store sales

Chain type	:	1958	: : 1963	1967	: : 1972 :	1977	: 1982 :	1985	
	:	<u>Percent</u>							
Supermarket Other Total	:	41.2 2.8 44.0	43.7 3.3 47.0	46.3 5.1 51.4	48.9 7.0 55.9	46.9 12.0 58.9	NA NA 60.0	NA NA 59.8	

NA = Not available.

superstores and combination stores are often so similar that from the customer's viewpoint, there are no differences. The instore pharmacy, a characteristic of the combination store, has been introduced to superwarehouse stores, such as Cub supermarkets in Atlanta and Minnesota. And the low-margin strategy of warehouse stores has been applied to the grocery products of very large combination stores with extensive service and specialty departments, such as Randall's Food Markets in Houston (27).

As warehouse stores have attempted to broaden their appeal through expanded product variety and service departments, they have become vulnerable to competitors that emphasize rock bottom prices, such as the wholesale club/cash and carry outlets. These stores originally served businesses and emphasized volume purchases, such as large-sized or case-lot products, on a cash-and-carry basis. In recent years, the wholesale club stores have extended participation to the public through membership fees or through affiliation with a credit union or similar consumer group. Although food products are the largest product category, variety is limited to about 4,000 nonperishable items, often sold in larger, institutional packages, multipacks, or by the case. Other major categories include clothing and linen, housewares and hardware, and electronics and appliances.

Wholesale club stores have grown rapidly since their inception in 1976. By yearend 1986, sales are expected to exceed \$48 billion through 220 outlets (see "Food Wholesaling" for more detail).

### Aggregate and Local Market Concentration

Aggregate concentration measures the sales of the top 4, 8, and 20 food retailers relative to the Nation's total grocery store sales. Because none of these top retailers operates in all regions of the country, such measures of market share are less comparable than for industries serving national markets, such as many of the food manufacturing industries. Yet, the aggregate concentration measure is a useful indicator of the importance of the largest firms among all food retailers.

Table 12--Number and sales share of supermarket formats

	:		Numb	er	:		Sales	
Store format	:		:		:		:	
	:	1980	:	1984	:	1980	:	1984
	:							
	:			<u> </u>	ercent	_		
	:							
Supermarkets	:	100.0		100.0		100.0		100.0
Conventional	:	85.0		65.5		73.1		49.8
Superstore	:	8.9		18.2		17.7		27.6
Combination	:	.9		3.5		4.0		7.8
Superwarehouse	:	•5		•7		1.0		2.0
Warehouse/	:							
limited	:							
assortment	:	4.7		12.1		4.2		12.8
	:							

Source: (62).

The sales share of the top 4, 8, and 20 retailers increased in 1985 over 1982 (table 13) (see appendix table 13 for a list of the top 20 grocery store chains). The sales share of the top 4 and 8 firms increased to 19.0 percent and 25.2 percent, respectively, in 1985 which was about the same level as 1967. The top 20 firms' share increased to 35.5 percent following a long period of stability. The increase in concentration was due in part to mergers among these largest firms.

The rate of change in aggregate concentration may be of greater importance than its actual magnitude. Increases in concentration during periods of high merger, acquisition, and divestiture activity may indicate greater consolidation within the industry. Divestitures or "spinoffs" of assets may often mitigate the concentration effects of mergers and acquisitions.

Local market concentration measures the sales share of the largest firms within a market area. The level of market concentration is one indicator of the degree of competitiveness in the marketplace. Changes in market concentration indicate the extent of restructuring in the market and has implications for future competitiveness.

Data from the 1982 census were used to calculate the sales share of the four largest food retailers in each of 318 SMSA's (Standard Metropolitan Statistical Areas) (46). The average four-firm sales concentration across all SMSA's was 58.3 percent in 1982, 2 percentage points higher than in 1977 (table 14). For 173 matched cities, concentration increased in a nearly identical pattern. For both groups, concentration increased about 1 percentage point between 1958-63 and 1963-67. The rate of increase accelerated to 4 percentage points between 1972-77 but dropped back to an increase of 2 percentage points between 1977-82.

Such increases in market concentration may be the result of a number of forces including mergers and acquisitions, market exit and entry, market growth, labor cost differentials, and innovation and technological advances.

### Mergers and Divestitures

The total number of acquisitions in food retailing dropped to 52 in 1985 from 60 in 1984 (table 15). This count includes all acquisitions made by U.S. food

Table 13--Sales share of leading grocery chains

en garannya ngangangangangan kapangangan kabupatan ngangan pandan akan di saban di saban di saban di saban sa	:	:	:	:		:	:
Item	: 1958 :	: : 1963 :	: : 1967 :	: 1972 :	1977	1982	: 1985 :
	:			Percent	:		
4 largest chains	: : 21.7	20.0	19.0	17.5	17.4	16.1	19.0
8 largest chains 20 largest chains	: 27.5 : 34.1	26.6 34.0	25.7 34.4	24.4 34.8	24.4 34.5	23.6 34.9	25.2 35.5

Sources: (5, 21).

retailing firms regardless of whether the acquired assets were inside or outside the food retailing industry. The count also includes any food retailing assets acquired by nonfood retailing firms. The acquiring firm was a U.S. food retailer in 36 of the 52 acquisitions in 1985, while the acquiring firm was outside U.S. food retailing in the remaining 16 instances. Of the 36 acquisitions made by U.S. food retailing firms, 10 were acquisitions of assets outside food retailing. An example is Kroger's acquisition of Hook Drugs, Inc.

No very large U.S. food retailers merged in 1985 or the first half of 1986 in contrast to 1984, when American Stores (ranked number 4) acquired Jewel Companies (ranked number 9). However, Kohlberg, Kravis, Roberts, and Company, in a leveraged buyout, acquired Safeway, the Nation's second largest food chain. This merger did not increase aggregate concentration in food retailing because the acquiring firm did not have any food retailing operations. If parts of Safeway are subsequently sold to reduce debt, aggregate concentration could decline if any of the buyers are below the current top 20 grocery retailers. The effect of any Safeway spinoffs on local SMSA concentration again would depend on whether the buyer is one of the four largest retailers in that market.

Food chains continue to restructure themselves, making divestitures and acquisitions. Of the 52 mergers last year, 33 were divestitures. Typical divestitures were food retailers or wholesalers buying a group of stores spunoff by a convenience store or supermarket chain. For example, Kroger (ranked number 1) sold its Cleveland area stores and warehouse to Fisher Foods while acquiring Price Savers Wholesaler, Inc., and Hook Drugs, Inc. Kroger is now divesting its drugstore operations. American Stores Company (ranked number 3) spunoff its 310-store White Hen Pantry chain. Lucky Stores, Inc. (ranked number 5) sold its supermarkets in Chicago to Dominicks Finer Foods, Inc., and in Houston to Rice Food Markets, and divested 77 auto part stores to Southland Corporation. Lucky also sold Gemco, its discount department store.

Consolidation continues in the convenience store sector as these firms accounted for 19 acquisitions in 1985. Circle K, one of the fastest growing convenience store firms, acquired two chains in 1985 and another two during the first half of 1986. This firm now owns over 3,400 convenience stores in 25 States, plus a large number of stores in foreign countries. Also in 1986, Dairy Mart, a 900-store chain, agreed to acquire Conna Corporation, operator of 370 convenience stores.

Table 14--Average four-firm concentration, all SMSA's and 173 matched SMSA's

Item	:	1958	: :	1967	: :	1972	:	1977	:	1982	
	:					Percen	<u>t</u>		-		
All SMSA's	:	49.3		50.0		52.4		56.3		58.3	
173 SMSA's	:	48.7		49.4		52.2		56.4		58.7	

Sources: (21, 46).

While most mergers in food retailing involve geographic expansion, three horizontal mergers between leading retailers were completed in the first half of 1986. In Norfolk, VA, Farm Fresh (ranked number 1 in the area) acquired Open Air (ranked number 3). In New York City, Red Apple Companies acquired Gristede, making the merged firm the largest food chain in Manhattan. The Great Atlantic and Pacific Tea Company (ranked number 3 in York City) acquired Shopwell, which also operates 53 stores in New York City. And in November 1986, A&P announced the purchase of Waldbaum for \$275 million. Waldbaum operates 140 supermarkets in the New York City area, Connecticut, and Massachusetts. The purchase of Shopwell and Waldbaum transforms A&P into the largest food retailer in the New York City SMSA.

The effect of these mergers on market concentration in the two cities will differ. In New York City, which has one of the lowest levels of market concentration of major SMSA's, four-firm concentration will increase significantly, but still remain below 50 percent. In Norfolk, the merged firm will have an estimated 30-percent market share, and four-firm concentration will increase from about 55 percent to about 63 percent based on 1985 data. However, the merger's effect on competition is unclear. Farm Fresh faces four leading competitors with market shares of 8 percent or more. One of these, Food Lion, is the Nation's fastest growing chain and has relatively low labor costs and a reputation for aggressive price competition.

## Foreign Developments

Foreign investors have been more attracted to successful midsized regional and local chains in the past. During the late 1970's and early 1980's, common stock priced at or below book value made U.S. retail food firms attractive ventures to foreign investors. Many foreign retailers have had difficulty growing in their home countries due to economic conditions and government restrictions. One such regional chain, Food Lion, owned by Delhaize Freres of France, now ranks 15th among food retailers. A French food retailer has introduced the hypermarket, one of the largest store formats in the United States. The Biggs hypermarket in Cincinnati, one of the first of its kind in the United States, represents a joint venture of foreign investors with a domestic food wholesaler.

Table 15--Mergers and divestitures in food retailing

	:	A	cqu	iring company			; _;
Year	:	Food retailing firm	:	Other than food retailing firm	:	Total	: : Divestitures
	<u>:</u>		<u>:</u>		<del> :</del>		<u>:</u>
	:			Number			
1982	:	25		13		38	22
1983	:	35		10		45	33
1984	:	37		23		60	28
1985	:	36		16		52	33
	:						

Source:  $(\underline{6})$ .

With 1 full year of operation completed, the venture was termed a success. The investors plan to open additional Biggs hypermarkets. Carrefour, another French food retailer, also plans to open two hypermarket stores in the United States in 1987.

Foreign investment in U.S. food retailing has been modest during 1985 and the first half of 1986. LNC Industries of Australia purchased Victory Markets for \$74 million. Victory operates 80 supermarkets in New York and is a wholesale supplier to small chains and independents. A West German firm, Asko Deutche Kaufhaus AG, acquired a 27-percent interest in Furr's, Inc., a supermarket chain based in Lubbock, TX. Furr's operated 120 supermarkets with sales of \$826 million in 1985. Societe Docks de France acquired Lil' Champ Food stores of Jacksonville, FL, in 1985. Provigo, Canada's second largest food distributor, plans to expand its U.S. subsidiary sales over the next 5 years. Provigo's present U.S. activities include food wholesaling and wholesale club stores. Thus far, the decline in the U.S. dollar relative to many other currencies has not prompted foreign firms to increase food chain acquisitions.

## Overseas Activities of U.S. Retailers

Safeway restructured its foreign holdings by selling 22 stores and dairies in Canada while acquiring Woolworth's Ltd., an operator of 850 supermarkets and other retail outlets in Australia. Meanwhile Safeway is continuing to expand its export activities to "Pacific Rim" countries. Circle K Corp., an operator of convenience stores, has pursued joint ventures with Asian firms to build licensed stores in Hong Kong, Malaysia, Brunei, Indonesia, South Korea, Tiawan, Singapore, the Philippines, and China. Circle K already has 175 licensed stores in Japan.

## Performance

This section examines perfomance measures of the food retailing industry: employment and wages productivity, profits, and technology.

# Employment and Wages

Employment in foodstore retailing exceeded 2.7 million in 1985, an increase of 5.4 percent over 1984 levels (app. table 22). Employment has steadily grown and will continue to grow with the favorable new store formats. For example, food retailers have added or expanded their service departments with delicatessens, bakeries, and fresh seafood, which call for additional service staff. BLS projects food retailing employment to grow 1.8 percent annually to 3.2 million by 1996 (see app. table 22 for employment series). Average hourly earnings for nonsupervisory grocery store employees fell in 1985 for the first time, dropping 4.3 percent to \$7.58 (table 16). Although hourly earnings had been rising, year-to-year increases had been declining rapidly from a peak increase of 10.3 percent in 1980 (fig. 8).

By comparison, hourly real earnings remained stable between 1980 and 1984 as declining inflation rates further strengthened smaller annual increases. Real dollar earnings fell 7.4 percent in 1985, despite continued low inflation rates.

Declining average wages of grocery store employees underscore the effects of retailers' efforts to lower labor costs. Changes in work rules affecting pay and multitier wage structures have been initiated in addition to store closings.

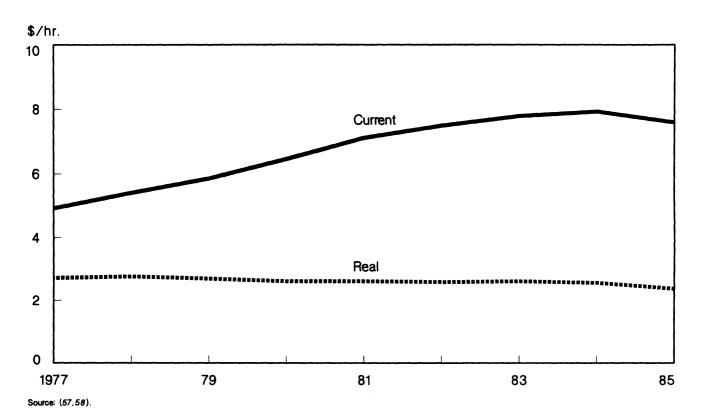
Table 16--Grocery store employment: Average hourly earnings

Year	:	Current	: Percentage : change from : previous : year	:	Real	:	Percentage change from previous year
	:	Dollars	Percent		Dollars		Percent
1977	:	4.92	NA		2.71		NA
1978	:	5.40	9.76		2.76		1.85
1979	:	5.85	8.33		2.69		-2.54
1980	:	6.45	10.26		2.61		-2.97
1981	:	7.10	10.08		2.61		0
1982	:	7.48	5.35		2.59		77
1983	:	7.78	4.01		2.62		1.16
1984	:	7.92	1.80		2.57		-1.91
1985	:	7.58	-4.29		2.38		-7.39
	:						

NA = Not applicable.

Sources: (57, 58).

Average Hourly Earnings, Grocery Store Employees



wage freezes, and concessions. Multitier wage structures establish a lower hourly rate, and often, lower fringe benefits for newly hired employees. In opposition, the United Food and Commercial Workers Union, which with 1.3 million members is the largest labor organization within food retailing, seeks to boost wages in 1987, ending a period of concessions.

While store closings and demands for wage concessions were less frequent in 1986, A&P reported plans to close all its western Virginia stores due to unprofitability and high labor costs. An agreement that called for concessions in fringe benefits and changes in work rules was reached with employees to re-open 60 stores under the Super Fresh banner. A two-tier wage structure would also be set. The Kroger Company, the Nation's largest food retailer, is still seeking concessions in Detroit, Dayton, and Cincinnati. Kroger recently won concessions in Columbus, OH, and Louisville, KY, and is selling off its St. Louis, MO, stores.

Rather than seeking concessions, retailers are more likely to use contract provisions, such as those reached by Kroger in Tennessee, which freeze wages and give bonuses tied to projected profits. An agreement with chain stores that affects 400 workers in western Idaho lowered Sunday wage premiums but upgraded health care and life insurance benefits. A new 3-year contract with P&C Food Markets (New York) provides for lump-sum bonuses twice a year instead of increases in hourly wages (33).

Many recent agreements have either suspended or delayed provisions for Cost of Living Allowances (COLA's). Lower inflation rates have also reduced the effect of COLA's on labor costs.

## Productivity

The BLS labor productivity index (1977 = 100) for retail food stores continued its lackluster performance, declining to 92.7 in 1985 from 93.6 in 1984 (app. table 26). Labor productivity peaked in the early 1970's and has remained at a relatively low level during the 1980's.

Such developments as convenience stores with lower sales per worker than supermarkets, and labor-intensive departments (deli, service bakery, floral, and produce) offset such productivity-enhancing developments as bar code scanning (which eliminates item prices on individual packages), improved labor schedules at checkouts, and a wider utilization of boxed beef.

#### Profits

Net income after taxes for food retailers with assets of \$25 million or more averaged 14.2 percent of stockholders' equity in 1985, down from 16.2 percent in 1984 (app. table 28). Profits in the first quarter of 1986 averaged 9.2 percent of stockholders' equity compared with 10.8 percent in 1985. First-quarter profits in food retailing are typically the lowest and fourth-quarter profits the highest because of extra sales during the holiday period. Profits as a percentage of stockholders' equity generally are considered a more appropriate measure than profits as a percentage of sales for comparing profit rates across industries.

The reason average food retailing profits declined in 1985 is not clear. Whole-sale food price increases were low as were changes in labor and energy costs.

Increased price competition from superwarehouse stores may be a partial explanation.

#### Technology

In addition to the use of optical scanning systems, many food retailers are taking the first steps toward computer-based information systems through the use of microcomputers and minicomputers. Retailers have formed committees on computer processing/information systems to plan and implement computer applications. However, food retailers may be reluctant to adopt computer technology without sufficient understanding of the costs and benefits. To address this question, the Food Marketing Institute plans to publish the findings of the taskforce, "Supermarkets in the Information Age," which will include more than 50 computer applications for the supermarket.

One recent application for computer information systems is the Direct Product Profit (DPP) model, which determines the contribution of an individual item to overall store-level profit. The DPP model suggests that allocation of shelf space based upon product movement and margin data can increase rates of return. The DPP evaluation also suggests pricing strategies. The DPP system is criticized for its inability to take into account other factors that may affect overall sales and profits, such as customers' desire for the item or its complementarity with other more profitable products.

New developments in cost-saving technology include automated checkout systems and instore electronic banking systems. "Expressit," an automated checkout technology, is being tested in supermarkets this year. The self-service checkout scans the item's universal product code for product description and price and displays the information on a computer screen (voice presentation in English or a second language is an option). A conveyor belt moves products to a collection and bagging point. Security devices monitor products through the system to ensure that all items have been scanned before bagging. The checkout system is intended to reduce the number of personnel to one clerk per three checkouts. Time required for checkout could potentially be reduced.

Another development contributing to the efficiency of grocery store checkout is the growing use of electronic banking as a means of conducting remote transactions and as a method of payment. Instore automatic teller machines (ATM's) make cash more available for purchases. Bank debit cards for payment also promise cost savings because processing is electronic, avoiding the significant costs of check writing. Customers may favor the convenience of the debit card over the use of cash.

#### FOOD SERVICE

America's 712,000 foodservice establishments sold \$168 billion worth of meals and snacks, excluding alcoholic beverages, in 1985, up 5.9 percent from 1984. Real sales rose 2 percent in 1985 compared with 4.3 percent in 1984 and 5.1 percent in 1983. The growth rate in 1986 likely surpassed that of 1985, based on the performance of separate eating places through the first 9 months of 1986. In 1985, food retailing outperformed food service in a nonrecession year for the first time since the mid-1950's.

The foodservice industry in 1987 is a mature (slower growing) market, fiercely competing with intra-industry establishments and food retailers for a bigger

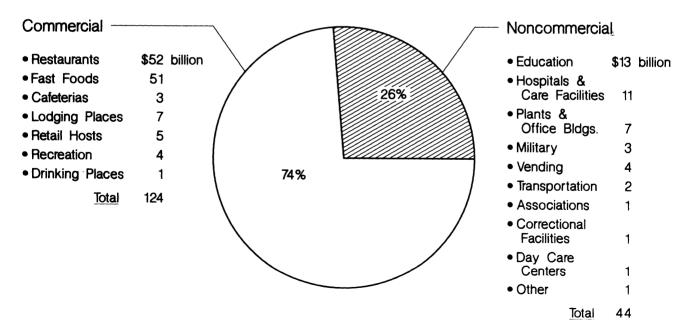
share of the consumer food dollar. Large foodservice firms, particularly fast food chains, are gaining market shares by introducing new products that are heavily advertised and promoted with coupon and meal-pack discounts. Large foodservice firms also are rapidly building new units and buying existing restaurants in prime locations and converting them to their own concepts. Many are expanding overseas and into such nontraditional markets as shopping malls, hospitals, hotels, and military bases; increasing takeout, drive-through window, and home delivery operations; and jointly marketing foodservice products with food retailers and manufacturers in food retailing outlets.

In addition to industry maturation and increased competition, critical industry issues in the late 1980's include potentially severe labor shortages in certain markets and high labor turnover rates, both hampering productivity and growth. Public concern over alcohol abuse means a smaller percentage of profits may come from beverage alcohol and more from food.

## Composition

This country has more than 700,000 places to eat out, ranging from hot dog counters at ball parks to school cafeterias. The foodservice industry consists of many market segments commonly divided into commercial and noncommercial sectors (fig. 9). Commercial foodservice establishments exist for profit, while noncommercial foodservice operations in such establishments as nursing homes, child daycare centers, factories, and the military provide a feeding service and are generally nonprofitable.

Floure 9
Foodservice Sales by Sector, 1985



Separate eating places (often abbreviated to eating places) derive revenue mainly from sales of meals and snacks. They include full-service restaurants, fast food outlets, and commercial cafeterias. Such places accounted for 64 percent of the retail value of all food consumed away from home in 1985 (table 17). They accounted for 62 percent of commercial foodservice establishments in 1985 and 86 percent of commercial sector sales. The remaining sales in this sector are from outlets that are part of a larger facility of which foodservice sales are less than other revenue. These outlets may include department store coffee shops, snack bars and restaurants at Disney World, or neighborhood pubs.

Although many noncommercial outlets serve food to more people than commercial eating places do, they account for only 26 percent of the total retail value of food away from home. Schools and child care centers account for about 31 percent of that share; hospitals and care facilities, 26 percent; plants and office buildings, 15 percent; vending, 8 percent; military services, 6 percent; transportation, 4 percent; associations, 4 percent; correctional facilities, 3 percent; and other institutions, 3 percent.

#### Sales

Total sales of meals and snacks, excluding alcoholic beverages, at foodservice establishments rose almost 6 percent from those of 1984 to \$167.8 billion in

Table 17--Foodservice sales and establishments by industry sector, 1985

	:	S	ales		:	Estal	olish	nents
Foodservice	:	Share	:	Share	:	Share	:	Share
industry sector	:	of	:	of	:	of	:	of
•	:	industry	:	sector	:	industry	1/:	sector l
	:							
	:			Pe	erc	<u>ent</u>		
	:							
Total	:	100		NA		100		NA
	:							
Commercial sector	:	74		100		58 -		100
Eating places 2/	:	64		86		36		62
Restaurants	:	31		49		18		49
Fast food outlets	:	31		48		18		49
Cafeterias	:	2		3		1		2
Other	:	10		14		22		38
Noncommercial sector	:	26		100		42		100

NA = Not applicable.

<sup>1/</sup> Subtotals for eating places do not add to 100 because of rounding. 2/ Eating places (SIC 5812 with payroll) are retail establishments that derive most of their revenue from sales of prepared meals and snacks for onpremise or immediate consumption. Eating facilities that are subordinate parts of other kinds of businesses (for example, a hotel restaurant or bowling alley snack bar) are excluded from eating places unless they are leased to or run by outside operators; otherwise, they are included under "Other."

1985 (table 18). Real sales increased 19 percent during 1977-85, with a 2-percent gain in 1985. In 1986, real sales may have increased 2.5 percent. Real growth rates in 1985 and 1986 were below the high growth rates of 1983 and 1984, 5.1 percent and 4.3 percent, respectively, and the 3-percent annual average growth rate during 1960-80.

The commercial foodservice sector captured \$123.5 billion, or 74 percent, of total foodservice sales in 1985 compared with \$116.1 billion in 1984, an increase in sales of 6.4 percent. Real sales increased 26 percent during 1977-85, with a 2.3-percent gain in 1985.

In comparison, 1985 sales in the noncommercial sector amounted to \$44.3 billion, up from \$42.4 billion in 1984, an increase in sales of 4.5 percent. Real sales increased 2 percent during 1977-85, with a 0.6-percent gain in 1985.

## Structure and Organization

U.S. away-from-home eating establishments rose 14 percent from those in 1977 to 711,831 in 1985 (table 19). The number of eating facilities in the noncommercial sector rose 35 percent between 1977 and 1985, with big increases in child daycare centers, nursing homes, and elderly feeding programs. However, real noncommercial sector sales increased less than 2 percent during the same period. Nearly 70,000 new child daycare eating facilities greatly boosted overall unit growth but had little effect on sector sales. Children under 6 years old do not eat much. Unit count declines in the education, hospital, and military segments hampered sector sales growth.

The number of commercial sector outlets rose 2 percent between 1977 and 1985, although the number of fast food outlets increased 24 percent. The number of cafeterias and the number of separate drinking places declined 23 percent and 21 percent, respectively. The number of eating facilities in lodging places and such retail hosts as department stores also declined. Real commercial sector sales and real fast food sales increased 26 percent and 46 percent, respectively, during 1977-85.

#### Market Concentration

The Nation's 4, 8, 20, or 50 largest eating place firms have increased their shares of eating place sales gradually. However, the 4 and 50 biggest eating place firms accounted for 5 and 20 percent, respectively, of eating place sales in 1982. Among limited-menu restaurants, the 4 and 50 largest firms accounted for 9 and 26 percent, respectively, of 1982 sales. In food service, as in food retailing, the relevant market focus for most firms is local or regional. National market concentration data, though useful in aggregate analyses, do not provide information on market power in geographic subsectors.

Market shares would have been higher if the sales of firms operating under franchises had been grouped with sales of parent franchise firms. The following analysis of 1985 sales concentration includes systemwide sales for franchise companies (that is, sales from both parent company-owned and franchisee-owned outlets).

Table 18--Sales of meals and snacks and percentage change in real sales

	: :	Sales of	meals and	spacks 1/		: Percentage
	: : 1977 :	: : 1983	: : 1984 :	: : 1985 <u>2/</u> :		
	: :	Million	dollars -		<u>Per</u>	cent
Commercial feeding	: : 56,624	105,634	116,095	123,500	118.1	26.0
Separate eating places	47,426	90,356	99,582	106,743	125.0	30.1
Restaurants, lunchrooms	24,720	44,731	48,419	52,296	111.5	22.3
	20,334	41,898	47,319	51,455	153.0	46.2
	: 1,813 :	2,871	3,022	2,992	65.0	-4.6
	3,613	6,756	7,264	7,355	103.0	17.6
Retail hosts	2,691	4,319	4,779	4,910	82.5	5.4
Recreation, entertainment	1,915	3,093	3,394	3,510	83.3	5.9
Separate drinking places	979	1,111	1,076	982	.3	-42.0
Noncommercial feeding	25,152	40,098	42,390	44,343	76.3	1.9
Education	8,242	11,624	12,239	12,942	57.0	-9.3
Elementary, secondary :	5,886	7,537	7,930	8,472	43.9	-16.8
	2,256	3,886	4,092	4,230	87.5	8.3
Other education	100	201	217	240	140.0	38.7
Plants, office buildings	3,576	6,258	6,793	7,186	100.9	16.1
Hospitals	3,711	5,715	5,817	5,905	59.1	-8.0
Care facilities	2,388	4,983	5,281	5,452	128.3	32.0
Vending	2,508	3,348	3,583	3,730	48.7	-14.1
Military services	1,595	2,255	2,366	2,470	54.9	-10.4
Troop feeding :	1,245	1,709	1,765	1,853	48.8	-14.0
Clubs, exchanges :	350	546	601	617	76.3	1.7
Transportation	1,079	1,793	1,922	1,996	84.9	6.9
Associations	958	1,501	1,562	1,610	68.1	-2.7
Correctional facilities :	492	1,092	1,155	1,205	144.9	41.5
Child daycare :	249	663	760	835	235.3	94.4
Elderly feeding programs :	202	629	689	744	268.3	112.9
Other :	151	238	252	268	77.5	2.7
Total :	81,776	145,733	158,485	167,843	105.2	18.6

 $<sup>\</sup>frac{1}{2}$ / Excludes alcoholic beverages.  $\frac{1}{2}$ / Preliminary figures.  $\frac{1}{3}$ / Consumer Price Index 1967 = 100.

Table 19--Number of foodservice establishments

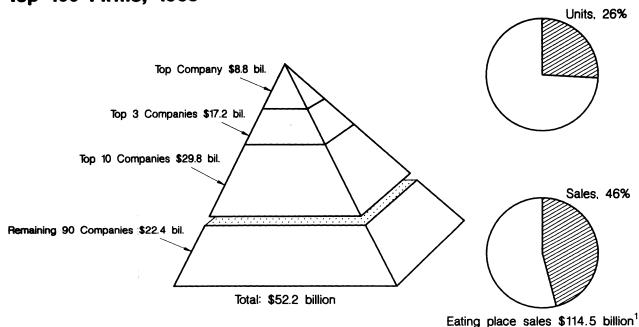
Toductor comment		:	
Industry segment		: 1985 1/ :	change
	: : Nur	nber	Percent
	:		Tercent
Commercial feeding	: 401,502	409,869	2.1
Separate eating places	: 229,892	255,699	11.2
Restaurants, lunchrooms	: 118,896	125,502	5.6
Fast food outlets	: 100,493	124,809	24.2
Cafeterias	: 7,001	5,388	-23.0
	: ,,,,,,,,,	3,300	-23.0
Lodging places	25,931	22,613	-12.8
Retail hosts	: 60,652	56,005	-7.7
Recreation, entertainment	: : 33,619	34,910	3.8
Separate drinking places	: : 51,408	40,642	-20.9
Noncommercial feeding	:	201 060	05 /
Moncommercial leeding	: 223,005 :	301,962	35.4
Education	: 97,325	95,775	-1.6
Elementary, secondary	: 91,300	89,400	-2.1
Colleges, universities	: 3,095	3,299	6.6
Other education	: 2,930	3,076	4.9
Plants, office buildings	: 15,187	15,963	5.1
Hospitals	: 7,099	6,835	-3.7
Care facilities	: 21,117	29,711	40.1
Vending	: : 3,737	3,535	-5.4
Military services	: : 3,971	3,270	-17.6
Troop feeding	: 1,435	1,290	-10.1
Clubs, exchanges	: 2,536	1,980	-21.9
,	:	2,700	22.7
Transportation	: 799	640	-19.9
Associations	: : 18,966	19,450	2.5
Correctional facilities	: : 6,907	7,204	4.3
Child daycare	: : 18,967	88,410	366.1
Elderly feeding programs	: : 11,173	14,068	25.9
Other	: : 17,757	17,101	-3.7
Cotal	: 624,507	711,831	13.9

Technomic Consultants estimated that, among separate eating places in 1985, the top 100 restaurant companies accounted for 46 percent of sales, up from 44 percent in 1984 and 26 percent of units (fig. 10). In 1975, the top 100 accounted for 38 percent of sales and 18 percent of units. Concentration is even more apparent if one considers only the top 3 and top 10 companies. The top three alone--McDonald's, Pillsbury Company (Burger King, Bennigan's, Steak and Ale, Godfather's, Quik Wok, J. J. Muggs, Bay Street, Hoffman House, and Luthers Bar-B-Q restaurants), and PepsiCo (Pizza Hut, Boulangerie, Taco Bell)--accounted for one-third of sales of the top 100 companies. The top 10 accounted for nearly 60 percent. In 1985, the 100 largest restaurant companies increased domestic sales by \$4.7 billion. But the top three companies accounted for \$2.2 billion, or nearly half, of that growth.

The top 100 restaurant companies accounted for 80 percent of sales in fast food places in 1985, up from 67 percent in 1975, and 45 percent of units, up from 38 percent in 1975. They accounted for 23 percent of sales in the restaurant segment in 1985, up from 18 percent in 1975, and 9 percent of units, up from 6 percent in 1975. Big chains are responsible for much of the growth, but there is still a large small chain and independent midscale-upscale market that has not consolidated to the same degree as the quick service category has.

McDonald's Corporation, Oak Brook, IL, is by far the leading foodservice chain, with 1986 domestic and international sales projected to hit \$12.5 billion, according to Nation's Restaurant News. The rapidly expanding fast food chain has approximately 9,460 units; one new McDonald's opens somewhere in the world about every 15 hours. Burger King, Miami-based subsidiary of the Pillsbury

Concentration in Separate Eating Place Market, Top 100 Firms, 1985



1/ includes alcoholic beverages. Source: (34),

Company, is McDonald's closest competitor with systemwide sales of \$5 billion. Wendy's International, Inc., Dublin, OH, with sales of \$3.2 billion, places third among burger chains and fourth among all restaurant chains behind Kentucky Fried Chicken, Louisville-based subsidiary of PepsiCo, Inc., with projected sales of \$3.3 billion in 1986. PepsiCo, Inc. acquired Kentucky Fried Chicken from RJR Nabisco, Inc. in late 1986.

## Franchising

Franchised restaurants, both company-owned and franchisee-owned, represent a key segment of the commercial restaurant industry. They commanded a 42-percent share of total eating-place sales in 1984 compared with 21 percent in 1970.

Franchised restaurant sales rose from \$4.6 billion in 1970 to \$43.4 billion in 1984 (fig. 11). Real sales increased 3-1/2 times during 1970-84. The number of franchise outlets more than doubled between 1970 and 1984, from 32,584 units to 70,495 units (fig. 12).

Franchised restaurant sales rose 11 percent over those of 1984 to almost \$48 billion in 1985. They are expected to jump about 12 percent to \$54 billion in 1986. Franchised restaurants numbered 75,824 in 1985 and are expected to rise to nearly 83,000 in 1986.

In 1984, 13 big franchisors operated over 1,000 units each. Combined, they represented 53 percent of all restaurants in the franchise system, or 37,467 restaurants and accounted for \$26 billion, or 60 percent, of franchised restaurant sales.

Hamburger, roast beef, and frankfurter restaurants numbered 31,016 units and accounted for 41 percent of franchised restaurants and 50 percent of franchised restaurant sales in 1985 (table 20).

International operations of franchised restaurants continue to expand. In 1984, the most recent year for which data are available, 67 restaurant franchisors operated 5,990 units in foreign countries compared with 64 restaurant franchisors and 5,516 units in 1983. In 1971, restaurant franchisors operated 930 units in foreign countries.

Canada accounted for the largest number of restaurants in 1984, followed closely by Japan (table 21). South Korea has been a popular expansion candidate in recent years. Kentucky Fried Chicken stated in its 1985 annual report that it plans to have 25 units operating in South Korea by the time of the 1988 Summer Olympic Games. PepsiCo is negotiating to open Pizza Hut units in the Soviet Union in 1987. Other chains, including McDonald's, are said to be negotiating with the Soviets.

McDonald's is pacing the industry, with 2,037 restaurants in 43 foreign countries by the end of 1986 when foreign units accounted for 22 percent of McDonald's systemwide units. Contenders are Kentucky Fried Chicken, with 1,773 total units abroad, and Pizza Hut, with 576. Store volumes and real growth in key international markets continue to outpace the U.S. averages. The highest volume Pizza Hut in the world is in Hong Kong. Its volume is nearly four times that of the average U.S. Pizza Hut.

Another 20 restaurant franchisors plan to extend their operations to foreign countries by the end of 1987, according to the U.S. Department of Commerce's

Figure 11 Franchise Restaurant Sales (billion dollars)

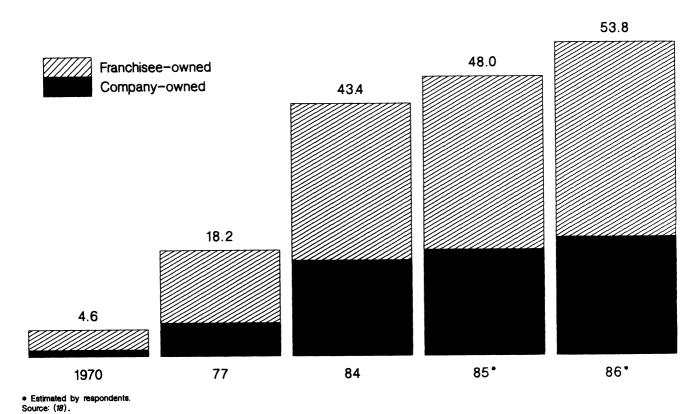
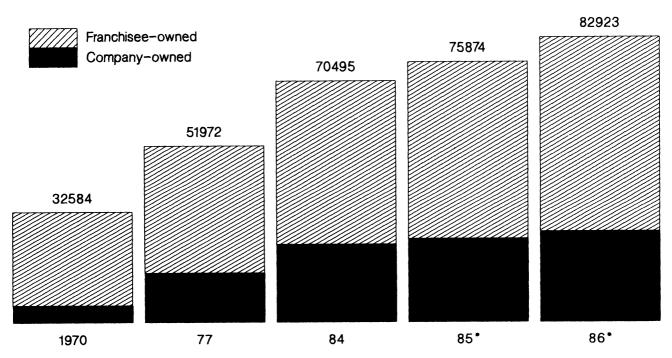


Figure 12 Number of Franchise Restaurant Units



Source: (18).

15th annual survey of franchisors. As many foreign countries improve their standard of living and evolve into more service-oriented economies, receptiveness to American-style franchising will continue to create export opportunities for U.S. franchisors despite increased competition from local firms and other international firms.

### Mergers

In keeping with the overall high level of mergers and acquisitions during 1985, foodservice firms were involved in 73 such transactions during the year (table 22). Driven by the lure of instant market penetration and the waning availability of high-traffic primary site locations, foodservice chains are turning increasingly to acquisitions. Although new store construction continues at a quick pace, a number of chains are significantly extending their geographic reach by acquiring struggling competitors and converting acquired units to their own concept. Others have embraced the acquisition/conversion route strictly to secure prime sites within established markets.

The cost of acquiring and converting existing sites is usually equal to or more expensive than building freestanding units. The motivations for such acquisitions clearly are to rapidly expand and to acquire prime locations.

PepsiCo began its restaurant operations in 1977, when it acquired Pizza Hut. Taco Bell was added in 1978. PepsiCo has added hundreds of restaurants to these chains in the last few years by buying existing restaurant chains and converting them to Pizza Hut and Taco Bell outlets. Acquisition of the 200-unit Straw Hat Pizza from Marriott at yearend 1986 affords PepsiCo the opportunity to penetrate exclusive California markets in which it does not have a large presence. In late 1986, PepsiCo acquired the 6,500-unit Kentucky Fried Chicken

Table 20--Distribution of franchise restaurants by major activity, 1985

	:				:			
Major activity	:_	Est	tabli	shments	:		Sales	3
	:		:	Share	:		:	Share
	<u>:</u>	Total	<u>:</u>	of total	:	Total	<u>:</u>	of total
	:					D.111		
	٠					Billion		
	:	Number		Percent		<u>dollars</u>		Percent
	:							
Chicken	:	9,256		12		4.4		9
Hamburgers, roast	:	31,016		41		24.1		50
beef, frankfurters	:							
Pizza	:	14,417		19		5.7		12
Mexican	:	4,200		6		2.4		5
Seafood	:	2,463		3		1.2		3
Pancakes, waffles	:	1,773		2		1.1		2
Steak, full menu	:	9,877		13		8.4		18
Sandwich and other	:	2,872		4		•7		1
	:					-		_
Total	:	75,874		100		48.0		100
	:							0

Source: (58).

chain from RJR Nabisco for \$840 million. This brings the number of PepsiCo restaurants to over 14,000 worldwide, making it the Nation's largest restaurant owner.

General Mills, Inc., apparently disillusioned with subpar returns in three of its six restaurant concepts, restructured its operations in 1985, concentrating on expansion of three concepts while divesting the mediocre performers. The company is redeploying assets into the 400-unit Red Lobster chain and its world-wide seafood supply network; the 130-unit York Steak House chain and its shopping mall locations; foreign markets, where there are 10 Red Lobsters; and the 14-unit Olive Garden Italian dinnerhouse chain. The move to sell three lackluster chains followed a decision to abandon an internal building and design operation as the company shifted its development tactics from constructing new units to acquiring existing, strategically located restaurants for conversion.

W. R. Grace and Company, acquired several chains, including two from General Mills, for \$250 million in 1985. It also planned to sell 125 unprofitable restaurants, or 15 percent of its foodservice division, to streamline its

Table 21--International restaurant franchising: Location and number of establishments

	:_					E	sta	ablishm	ent	cs				
Location	:		:		:		:		:		:		:	
	:	1971	:	1974	:	1976	:	1978	<u>:</u>	1981	:	1982	:	1984
	:													
	:							Number	•					
_	:													
Canada	:	519		860		1,047		1,196		1,220		1,172		1,591
Mexico	:	44		71		87		84		99		100		119
Caribbean	:	40		70		96		150		198		234		290
	:													
United Kingdom	:	63		429		433		454		442		481		576
	:													
Continental Europe	:	40		101		103		164		316		360		514
	:													
Australia	:	163		223		224		384		468		522		581
	:													
Asia	:	37		306		468		710		1,336		1,535		1,921
Japan	:	NA		265		415		590		1,106		1,259		1,490
Other	:	NA		41		53		120		230		276		431
	:													
Other	:	24		109		162		198		246		271		335
Africa	:	NA		NA		NA		NA		NA		124		172
New Zealand	:	NA		NA		NA		NA		NA		71		88
Central America	:	NA		NA		NA		NA		NA		45		75
South America	:	NA		NA		NA		NA		NA		31		63
	:													
Total	:	980		2,169		2,620		3,340		4,325		4,675		5,990
	:													

NA = No estimate available.

Source: (58).

<sup>1/</sup> Includes company-owned, franchisee-owned, and joint ventures.

845-unit foodservice group. Many of the units were located in underpenetrated markets outside the company's east coast and California stronghold.

Other recent examples of expansion through acquisition follow. Vicorp Restaurants, Inc., acquired 224 of the now defunct Sambo's coffee shop chain in 1984, converting the stores to its own Village Inn and Bakers Square concepts. Denny's absorbed 78 Colony Kitchen restaurants in 1984 and acquired several Sambo's sites and 75 VIP's and Alphy's restaurants, greatly enhancing its market penetration. Hardee's swept into the Midwest from its primarily southern base of operations and increased its presence to nearly national proportions by acquiring the 700-unit Burger Chef chain from General Foods. It converted the bulk of those units to Hardee's. Marriott's Roy Rogers filled in markets along the eastern seaboard and nearly doubled in size by acquiring the struggling Gino's fast food chain and converting some 175 of the units to its own concept.

### Performance

Important areas of industry performance include measures of labor productivity and profit, new product introductions, advertising and promotional efforts, cost control and pricing strategies, and the rate of adoption of existing technologies.

## **Productivity**

Productivity in eating and drinking places, as measured by sales per employee hour, dropped 2.3 percent in 1984 and 2.7 percent in 1985. The BLS productivity index for eating and drinking places (SIC 58) declined from 100.0 in 1977 to 95.5 in 1984 and 92.9 in 1985, a 20-year low. Despite sales gains in 1984 and 1985, hours increased even more, resulting in the productivity falloffs. This drop in productivity is perplexing in view of the proportionate increase in chain outlets and franchise establishments, which presumably benefit from economies of scale in advertising and promotion, centralized purchasing, inventory, accounting, technological innovations, and training programs.

Table 22--Mergers and divestitures in food service

Year	:	:	Divestitures					
	:	U.S.	:	Other than	:		_;	21,000100100
	:	foodservice	:	U.S. foodservice	:	Total	:	
	:	firm	:	firm	:		:	
	:							<del></del>
	:			Number				
	:							
1982	:	33		18		51		33
1983	:	43		21		64		35
1984	:	39		39		78		30
1985	:	49		24		73		39
	:					•		3,

Source: (6).

Some potential reasons for the productivity downturn in eating and drinking places after 1977 include a 42-percent decline in real sales for drinking places, expanded menus in fast food places, longer business hours in many eating places to accommodate breakfast additions to menus, and additional labor to service drive-through window and home delivery operations.

### Profits

Net margin equals net income, or aftertax profit, as a percentage of total revenue. Also called return on sales, it is a shorthand for how well companies control costs. Among 90 publicly held restaurant companies surveyed by Nation's Restaurant News, net margins for the 12 months ending in June 1986 averaged 5.4 percent (36). This is a mean average that weights the result by the dollar-for-dollar clout that larger restaurants enjoy. The median return on sales, or net margin, among those 90 companies was 3.1 percent. The difference between mean and median suggests that the largest of the public foodservice companies are outperforming their smaller competitors. McDonald's 1985 return on sales was 11.5 percent.

Return on equity (ROE) equals net income as a percentage of stockholder equity. It measures how well executives are using the money entrusted to them by investors, who are the ultimate owners and managers of any corporation. The median ROE among the surveyed companies for the 12 months ending in June 1986 was 9.4 percent. But the mean weighted average, which skews the result according to economic power, came in at 15.7 percent, which is generally the return stockholders expect from restaurant stocks. Many of the largest foodservice corporations continued to produce returns on equity of 20 percent or more during 1985. Marriott's ROE was 22.1 percent in 1985, the sixth straight year it exceeded 20 percent. McDonald's ROE for 1985 was 19.3 percent.

### Advertising and Promotion

Restaurants and fast food chains topped the \$1-billion mark in television advertising expenditures in 1985 and joined an elite group of big spenders that included automakers, food companies, and toiletries manufacturers.

Restaurants, which boosted spending 17 percent to \$1.09 billion in 1985, became the fourth such group to hit the 10-digit mark, according to the Television Bureau of Advertising. The 17-percent rise in television spending came in a year when customer counts were flat and competition stiff in all segments of the industry.

McDonald's led the field once again and increased spending 19 percent to \$303 million, including \$185 million for network buys and \$118 million for local spots (table 23). McDonald's led all U.S. television advertisers in local spot expenditures. Network buys placed McDonald's fifth, behind Proctor and Gamble (\$494 million), Philip Morris (subsidiaries of which include General Foods, Miller Brewing Company, and Seven-Up) (\$348 million), General Motors (\$209 million), and Ford (\$191 million). McDonald's nearly outspent its three nearest rivals, Burger King, Kentucky Fried Chicken, and Wendy's, which together spent \$314 million on television advertising in 1985.

Restaurants and fast food chains spent \$93 million on radio advertising in 1985, with PepsiCo's Taco Bell, Saga Corporation, and Pillsbury's Bennigan's leading the field, according to the Radio Advertising Bureau. Taco Bell spent \$11.3

million on radio commercials in 1985, up 29 percent over its 1984 expenditures (table 24).

Table 23--Leading foodservice television advertisers, 1985

Chain	: Netwo:	: rk :	Spot	:	Total	:	Percentage change from 1984
		- <u>Mill</u>	ion do	lla	<u>rs</u>		Percent
McDonald's	: 184.9	•	117.9		302.8		19
Burger King	71.	L	83.9		155.0		20
Wendy's	: 44.	3	39.4		83.7		14
Kentucky Fried Chicken	: 45.0	)	31.0		75.3		20
Pizza Hut	: 18.4	4	44.9		63.3		9
Taco Bell	: (	)	38.7		38.7		36
Hardee's	: 8.9	•	23.3		32.2		26
Red Lobster	: 12.9	•	14.8		27.7		<b>-</b> 7
Long John Silver	: (	)	26.3		26.3		34
Denny's	: 10.5	5	12.5		23.0		22
Domino's Pizza	9.3	3	8.1		17.4		202
Arby's	5.8	3	10.1		15.9		26

Source: (35).

Table 24--Leading foodservice radio advertisers, 1985

	:		:	Percentage
Chain	:	Spending	:	change
	:		:	from 1984
	:			_
	:	Million dollars		Percent
	:			
Taco Bell	:	11.3		29.0
Saga Corporation $1/$	:	9.0		180.0
Bennigan's	:	8.4		5.6
McDonald's	:	5.4		41.4
Church's Fried Chicken	:	3.8		64.0
Rax	:	3.0		1,092.0
Kentucky Fried Chicken	:	2.2		37.6
Roy Rogers	:	1.7		91.0
White Castle	:	1.5		9.3
Shoney's	:	1.3		69.1
Red Lobster	:	1.0		26.7
Del Taco	:	1.0		80.0
Pizza Hut	:	.7		12.1
	:			

1/ Saga Corporation is a diversified company that operates Black Angus, Straw Hat Pizza, Velvet Turtle, and Grandy's.

Source: (28).

Although most marketing dollars are spent on television, radio remains an effective competitive weapon for generating impulse buying, product testing, and repeat sales. Market leaders use radio to maintain market shares, introduce new products, and open up new dayparts such as breakfast. Challengers also use radio to zero in on likely customers, establish niches for new products, or improve awareness and sales against geographic or demographic targets.

McDonald's spent \$550 million, or 4.9 percent of sales, on advertising and promotion in 1985. Of that amount, 56 percent, or \$308 million, bought television and radio advertisements. The remaining \$242 million was spent in such media as magazines, newspapers, coupons, promotions, and billboards.

Many restaurant executives consider couponing a necessary evil, a matter of survival in an increasingly competitive marketplace (32). To others, it is an effective vehicle for introducing a new product or daypart, such as breakfast. In spring 1986, 5.4 percent of restaurant meals were purchased and discounted by coupon compared with 4.6 percent in spring 1985, according to the CREST Report. The percentage was higher for fast food outlets.

The percentage of restaurant meals purchased on deal, including coupons, meal-pack discounts, and 2-for-1 specials, has been rising (table 25). In winter 1986, 14 percent of all restaurant meals were purchased on deal compared with 17 percent of fast food meals. In 1985, promotions were used at dinner on 15.3 percent of all occasions versus 10.2 percent and 9.5 percent at lunch and breakfast, respectively. Use of promotions at dinner increased 19 percent between 1982 and 1985.

# A Slowdown in Foodservice Employment Growth

The BLS estimates that employment in separate eating and drinking places in 1985 totaled 5.7 million workers, or 5.2 percent of all employed Americans, including many part-time workers. The National Restaurant Association puts total foodservice employment in 1985 at about 8 million.

Table 25--Percentage of meals purchased on deal

Quarter	: 1	982 :	1983	: : 198	: 34 :	1985	: : 1986 :
	:			Pero			
	•			Perc	ent		
Winter	: 1	2.5	12.9	11	. 6	11.7	14.3
Spring	: 1	1.6	11.0	10	.1	11.1	12.2
Summer	: 1	0.0	9.9	9.	.8	10.4	11.1
Fall	: 1	0.9	11.5	10	.8	12.2	N.A
	:						

NA = No estimate available.

Source: (23).

The American penchant for eating outside the home should result in a continuing increase in employment in the foodservice industry, but the rate of increase is expected to slow (24). The real output of eating and drinking places rose rapidly over the past decade as more women entered the labor force and as the large population of young people boosted the popularity of fast food establishments. Employment increases in eating and drinking places represented more than 10 percent of all jobs created in the economy between 1969 and 1979 and more than 16 percent of new jobs between 1979 and 1984. Demand for meals away from home is expected to taper off in the next decade as the growth rate of total disposable income slows, although employment still could gain as an older population shifts its demand toward more labor-intensive "sit-down" restaurants. Employment in eating and drinking places is projected to rise 1.2 million to 6.9 million by 1995, accounting for about 8 percent of all new jobs.

## Labor Shortages and High Turnover Rates

The BLS projects that the number of workers between the ages of 16-24, the traditional source of entry-level employees, will shrink 11 percent by 1990 to 21.3 million from 1984's 24 million. That trend will continue through the mid-1990's. Jobs, however, are expected to continue increasing. The BLS estimates that, assuming moderate growth, the number of jobs created between 1984 and 1990 will be 1 million higher than the number of people added to the work force.

The BLS estimates that workforce growth is averaging about 1.3 percent a year, about half the annual growth rate in the 1970's, when the economy absorbed the postwar "baby boom" and an increase in female workers. The rate is expected to drop even further before picking up in the mid-1990's.

High turnover rates in the foodservice industry exacerbate labor shortages, which are cropping up in high employment areas of the Nation. The National Restaurant Association said the industry lost 32 percent of its workers in 1984 (the most recent data available), twice the turnover rate for American business and industry. Food counter and fountain workers and waiter/waitress assistants all demonstrated a 43-percent turnover rate. Kitchen workers, waiters, and waitresses had a 32-percent rate. Supervisors had a 24-percent turnover rate.

#### Menu Prices

Food prices in 1986 rose slower at supermarkets and other grocery stores than at eating places, continuing a trend of recent years. Prices at grocery stores went up 1.4 percent and 2.7 percent, respectively, in 1985 and 1986 while restaurant meals climbed about 4 percent each year. Over three-fourths of a typical supermarket's cost components are for food; in effect, supermarket prices closely reflect the overall wholesale food price index, but restaurant prices do not. Less than half of a typical restaurant's costs are for food. The remainder are for labor (a significant cost in this labor-intensive business), utilities, rental, and other costs.

Though the CPI for food away from home climbed 4 percent in 1986, many restaurateurs, especially in the country's depressed oil producing, farming, mining, and manufacturing areas, actually reduced prices outright without the smokescreen of coupons or discounts. Steak and Ale, for example, added new low-priced entrees to its 59 stores in the oil belt. Rax reduced prices at

drive-through windows in parts of Ohio and West Virginia. And Wendy's did the same in parts of Texas and Wisconsin.

Customer check averages fell in 1986 for the first time in the 10 years CREST has been tracking them. The fall is likely the result of menu price cuts, the use of coupons and other meal discounts, and such trading down on the part of the consumer as the substitution of small sodas for larger ones. NPD Crest data also reveal that consumers traded down in their choice of restaurants. The quickservice segment experienced strong traffic gains in 1986, but midscale and upscale restaurants posted traffic declines.

Some foodservice operators may be able to afford some minor price cuts or to hold prices in check because commodity costs and wage rates have been restrained. Tax reform, which will reduce the levies at many companies, might also relieve some cost pressures. But the main reason for price cutting and trading down may follow patterns in the consumer economy. Slow growing wages, high unemployment by historical standards, and heavy consumer debt likely will put continued pressure on menu prices in 1987.

#### Costs

Restaurants' biggest nonfood cost is labor. Many firms are developing new job training and incentives programs to improve productivity, reduce costly labor turnover, and gain a competitive edge in attracting employees in areas affected by labor shortages (8). Many are looking to new forms of automation to reduce labor costs. In a move to catch up with supermarkets, some restaurants are introducing computers to increase their efficiency in sales and inventory control (17). Some suppliers are moving to assist restaurateurs by offering leased computers and tailored management software programs.

Restaurateurs with liquor liability insurance in 1986 paid a premium increase averaging 110 percent, according to a Gallup survey conducted for the National Restaurant Association (14). Respondents reported an average premium of \$39,555 for fiscal year 1986. In 1986, 18 States had dramshop laws that held the server of alcoholic beverages accountable for actions of the consumer. Seventeen States established the same liability through common law precedent. And five States had both dramshop and common law liability.

Some chains are trying to cut costs by increasing use of mobile units and downsized restaurants requiring smaller land parcels. The mobile restaurant eliminates certain fixed costs associated with standard units. Arby's expects to have 20 mobile units in operation by 1988. Other chains, including Burger King and Pizza Hut, are also developing fleets of mobile restaurants.

At \$100,000 each--compared with an estimated \$750,000 for a fixed freestanding Arby's--the mobile units are expected to produce a high return on investment. Projected sales of \$400,000 to \$600,000 a year would be about comparable to sales at a standard Arby's. The mobile unit, which is 32 feet long and 8 feet wide, contains a scaled-down version of the equipment used in a freestanding Arby's outlet. Using a crew of six to eight employees per shift, the mobile restaurant offers many of the same items found on Arby's menus, including breakfast.

#### Outlook

Overall, real industry sales likely grew about 2.5 percent in 1986. Sales in fast food outlets may have exceeded, for the first time, those of restaurants with waiter/waitress service. The number of nonprofit foodservice outlets among elementary and secondary schools and the military services will continue to decline. The number of schools participating in the National School Lunch Program has steadily declined since 1979. The military continues to close troop feeding operations and onpost clubs and exchanges throughout the United States. Some of the military foodservice closings have resulted in the opening of chain outlets and onpost contract feeders.

As the "Retail Grocery" section of this report noted, the line between food sales at home and away from home is becoming increasingly blurred. More and more supermarkets have full-service delicatessens and self-service soup and salad bars. Fast food sales in convenience stores in 1985 accounted for 13 percent of sales (other than gasoline sales) compared with 9 percent in 1983 according to surveys conducted by the National Association of Convenience Stores. In a limited test in 1986, the 7-Eleven convenience store chain teamed up with Hardee's and began cooking Hardee's hamburgers in 7-Eleven stores. Later that year, similar joint ventures were tested with Church's Fried Chicken and the Rocky Rococo pizza chain. Such sales detract from the incomes of such traditional foodservice outlets as restaurants, cafeterias, and fast food places but are counted as retail grocery sales.

Fast foods are not necessarily served fast; convenience stores may offer them faster. Supermarkets are sending part of their food sales to the consumer's home in a pre-prepared, ready-to-eat form. And consumers can enjoy dinner fares of traditionally sitdown restaurants at home without ever entering the restaurants that prepared their dinners. In 1976, fewer than 10 percent of American households owned a microwave oven and in 1980, 13 percent owned one, according to ongoing Gallup surveys. By spring 1986, 57 percent of the homes in the United States had a microwave.

On the other hand, many restaurants never before involved in the carryout business are offering all or part of their menus for carryout. The number of eating place customers ordering lunch and dinner to go is on the rise, according to data from CREST Household Report, 1986. In 1985, 35 percent of all lunch orders were eaten off premise compared with 28 percent in 1982. Takeout traffic for the midday meal jumped 29 percent between 1982 and 1985, while the number of patrons eating inside the restaurant declined 6.2 percent during the same period.

Virtually all of the growth in dinner traffic from 1982 to 1985 came from offpremises business. Takeout and delivery traffic at dinner more than doubled during 1982-85, and it increased its share of the market to 41.0 percent from 29.3 percent. At the same time, customer counts for on-premises dining fell 8 percent. As a result, off-premises dining now accounts for more than 25 percent of dinner sales (versus 16 percent in 1982).

Competition for dollars spent on food not prepared at home will continue to intensify for the next several years. The fast food industry has been especially aware of the growing competition for consumer food dollars and has moved in several new directions to retain or add to its market share.

The industry has introduced mobile units and is operating outlets in new locations, such as schools and college campuses, hospitals, military bases, toll roads, bus terminals, retail stores, shopping malls, center city office buildings, recreational sites, and international markets. Menus include such items as salad bars, salad entrees, pasta dishes, baked potatoes, gourmet burgers, more fish and chicken items, soups, lowfat milk, and whole grain buns. Many foods have been added in response to demand from health- and diet-conscious individuals (16, 29). This market segment has expanded as the scientific base linking diet and health mounts and as women, who are joining the labor force in large numbers, eat out more often. Many fast food outlets have upgraded their decor and added drive-through windows to attract more business. These outlets have also introduced breakfast and dinner specialties, extended operating hours, and established a niche in the catering business to get full use of equipment and to increase unit sales.

Many full-service restaurants are experimenting with lighter dishes and emphasizing freshness, quality, regional cooking, and seasonality to increase customer traffic. Compared with fast food places, these restaurants enjoy greater flexibility to adapt menus and preparation methods quickly to meet changing consumer preferences. This sort of competition spells opportunity not only for those who operate supermarkets and restaurants but also to the other links in their marketing chain. New and imaginative products and packaging adapted to the new environment of meal selection, preparation, and consumption will be successful if they mesh with changing consumer attitudes and behavior.

Such factors as increased disposable income, growing numbers of women in the workplace, and increasing numbers of Americans in the 25-44 age group (they eat out more often than other age groups) will continue to be pluses for the food-service industry over the next few years.

The older population also has a role to play in the future of food service. Consumers 50 years of age and over account for half (\$130 billion) of the U.S. discretionary income, according to the Conference Board, a New York business research organization. And, the 50-and-over age group will grow 23 percent by the year 2000 compared with an expected 14-percent increase among the rest of the U.S. population. Consumer Expenditure Survey results show older households have been spending an increasing share of their total food budgets on dining out, and a recent CREST report on the senior market found restaurant usage by this segment was rising at a faster-than-average rate.

Older Americans are expected to carry the same eating habits throughout their lives. By the year 2000, this age group will contain the generation that grew up on fast foods, drive-through windows, salad bars, and home-delivered pizzas. With the children grown and living away from home and with the home mortgage paid off (80 percent of homeowners 55-64 years old own their homes), the interest in convenience foods and dining out probably will continue as the population ages. Such predictions are counter to the traditional social belief that older people eat out less often than younger people. However, given the money, the opportunity, and the mind-set, those 50 and over should positively affect foodservice sales over the next decade.

Growth in eating place sales will continue during 1987 but at a rate below the average for the last decade. Much of the growth in units and sales will be on less traditional sites (for example, mobile units, college campuses, office buildings, military bases, hospitals, and nursing homes).

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Appendix table 1--Food expenditures through the food marketing system

	: :			Off-premise	use			:	Food service		:	
Year	: Food:			: Home : delivered, : mail order :		: :	<b>Fotal</b>	: : Commercial :	: : Non- : commercial	: : Total	_: :: ::	Total
	:								<del></del>	· · · · · · · · · · · · · · · · · · ·	<u> </u>	
	:				Billion	dol	lars					
963	: 44.1		3.0	2.7	1.6		51.5	NA	NA	22.5		74.0
967	: 52.1		3.3	2.5	1.6		59.5	NA	NA	30.4		89.9
972	: 74.1		4.2	2.4	1.8		82.6	NA	NA	46.3		128.9
977	: 117.8		7.7	2.3	2.9	1	130.7	58.6	26.4	85.0		215.7
001	. 170 0	,		2 (	, ,		104 7	100 1		•••		
982	: 178.8		1.0	2.6	4.3		196.7	100.1	40.9	141.0		337.7
983	: 186.2		1.8	2.6	4.3		204.8	110.9	43.1	154.0		358.
984	: 195.3		2.4	2.6	4.6		214.8	121.6	45.0	166.6		381.
985	: 203.5	1:	2.8	2.5	4.7	- 2	223.5	129.7	45.6	175.3		398.
986 1/	: NA		NA	NA	NA.	:	234.0	139.0	47.0	186.0		420.0

NA = Not available.

Sources:  $(\underline{20}, \underline{42})$ .

Appendix table 2--Alcoholic beverage sales through the food marketing system

	:_		Pack	aged al	coho	lic beve	rages	3	:	: Alcoholic drinks					:		
	:		:		:		:		:		:		:		:	-:	
Year	:		:		:		:		:	Eating and	:	Hotels	:		:	:	Total
	:	Liquor	:	Food	:	All	:	Total	:	drinking	:	and	:	A11	: Total	:	
	:	stores	:	stores	:	other	:		:	places <u>l</u> /	:	motels	:	other	:	:	
	<u>:</u>		<u>:</u>		<u>:</u>		:		:		:		:		:	:	
	:																
	:								MI	llion dollar	cs						
963	:	, , , c E		2 504		705		7 00/		5 004							
	:	4,465		2,594		725		7,984		5,306		458		385	6,149		14,133
967	:	6,005		3,211		955	1	0,975		6,642		667		587	7,896		18,871
972	:	9,010		5,103		1,178	1	5,291		8,844		961		704	10,509		25,800
977	:	11,630		8,021		1,963	2	1,614		11,979		1,713		1,267	14,949		36,563
	:									•		-		•	•		,
982	:	15,904		13,348		3,374	3	2,626		18,352		2,849		1,515	22,716		55,342
983	:	16,776		13,830		3,651	3	4,257		19,941		3,128		1,608	24,177		58,434
984	:	15,995		14,738		3,877		4,610		20,701		3,386		1,673	25,760		60,370
985	:	15,684		15,421		4,071		5,176		21,470		3,653		1,758	26,881		62,057
986 2/	:	NA		NA		NA		6,500		NA.		NA		NA	27,800		64,300
_	:							.,				1411		····	27,000		04,500

NA = Not available.

Source: (20).

<sup>1/</sup> = ERS projections.

<sup>1/</sup> Includes tips. Excludes all noncommercial eating facilities and such commercial outlets as hotel restaurants, department store coffee shops, and ball park food concessions. These eating facilities numbered over 397,000 in 1982 and over 343,000 in 1977.

<sup>2/</sup> ERS projections.

Appendix table 3--Value added and employment generated by the food marketing system

7.4	: : : : : : : : : : : : : : : : : : :	1977 :	1982 :	1984 :	1985 :	1972 :	: 1977 :	1982 :	1985
Item	: 1972 : : :	: 19// :	1902 :	1984 :	1963 :	1972 :	19// :	1902 :	1903
	:								
	:	<u>Bi</u>	llion dol	lars			<u>Perc</u>	ent	
Value added:	:								
Food sector	: 143.4	217.6	337.3	384.9	417.1	11.8	10.9	10.7	10.4
Processing	: 30.6	45.0	65.0	74.1	78.8	2.5	2.2	2.0	2.0
Retailing and wholesaling	: 37.9	57.8	87.0	96.7	109.9	3.1	2.9	2.6	2.7
Transportation	: 6.5	9.8	16.9	19.5	21.0	.5	.5	.5	.5
Eating and drinking places	: 18.5	27.3	46.8	53.9	57.8	1.5	1.4	1.4	1.4
Other supporting sectors 1/	: 49.9	77.7	121.6	140.7	149.6	4.1	3.9	3.7	3.7
Farm sector (food products)	: 22.0	30.1	48.1	43.9	49.7	1.8	1.5	1.5	1.2
Nonfood sector	: 1,047.4	1,742.5	2,780.6	3,336.2	3,531.3	86.6	87.5	87.8	88.3
Gross national product	: 1,212.8	1,990.5	3,166.0	3,765.7	3,998.1	100.0	100.0	100.0	100.0
	:		Millions	3					
Full-time equivalent employment:	:								
Food sector	: 11.4	11.5	12.1	12.1	12.3	13.2	11.6	11.0	10.6
Processing	: 1.6	1.5	1.5	1.5	1.5	1.8	1.5	1.4	1.3
Retailing and wholesaling	: 3.0	3.0	3.2	3.1	3.2	3.5	3.0	2.9	2.8
Transportation	: .4	.4	.4	.4	.4	.4	.4	.4	• :
Eating and drinking places	: 2.9	3.1	3.4	3.5	3.5	3.3	3.1	3.0	3.0
Other supporting sectors 1/	: 3.5	3.5	3.6	3.6	3.7	4.0	3.5	3.3	3.3
Farm sector (food products)	: 2.4	2.2	1.7	2.0	1.8	2.7	2.2	1.5	1.6
Nonfood sector	: 72.7	85.3	96.4	99.0	101.4	84.0	86.2	87.5	87.8
Civilian labor force	: 86.5	99.0	110.2	113.5	115.5	100.0	100.0	100.0	100.0
	:								

<sup>1/</sup> Value added and employment in "other supporting sectors" includes auxiliary activities needed to provide food to the final user. It includes, for example, the value added and employment needed by the packaging industry to produce containers used in the food sector. It does not include the cost of materials used to produce related products.

Source: (19).

Appendix table 4--Major economic indicators

Year	<del>:</del> :	Population	: na	ross tional oduct	: pe	posable rsonal ncome		capita PI	:	Median family income	:	Employment	: : ប	nemployment rate
	: :	Millions		1982 million dollars		1982 million dollars		1982 dollars		1984 thousand dollars		Millions		Percent
1963	:	189.2	607	1,873	451	1,291	2,197	6,378		21.3		69.7		5.5
1967	:	198.7	816	2,271	562	•	2,828	•		25.7		76.6		3.7
1972	:	209.9	1,212	2,608	840	- ,	4,000	•		27.6		87.0		5.5
1977	÷	220.2	1,991	•	1,379	,	6,262	•		27.4		99.0		6.9
	:													
1982	:	232.3	3,166	3,166	2,261	2,262	9,732	9,732		25.2		102.0		9.5
1983	:	234.5	3,406	3,279	2,428	2,355	10,339	9,952		25.7		102.5		9.5
1984	:	236.7	3,765	3,489	2,670	2,468	11,279	10,427		26.4		106.7		7.4
1985	:	238.8	3,998	3,585	2,828	2,509	11,695	10,505		27.7		108.8		7.1
	:													

Sources: (43, 51, 58).

Appendix table 5--Consumer, producer, and farm price indexes

			<del></del>				: Pro	ducer	:		
	:		C	Consumer Price	e Index		: Pric	e Index	: F	arm Price	Index
Year	:		:	:	:	:	:	:	:	:	:
	:	Total	: At-home	: Away-from-	: All items	: A11	: Total	: Finished			:
		food		: home food	: less food	l : items	: finished	: consumer	: product	s : Crops	: Livestock
	:		:	:	:	:		_		:	:
	:										
	:				1967 = 10	<u>00</u>				1977 = 10	00
	:							01.4	F.0	cr	E 1
1963	:	91.2	87.3	90.7	92.0	91.7	93.7	91.4	53	55	51
L967	:	100.0	100.0	100.0	100.0	100.0	100.0	100.0	55	52	57
L972	:	123.5	121.6	131.1	125.8	125.3	117.2	121.7	59	60	77
.977	:	192.2	190.2	200.3	191.2	181.5	181.7	189.9	100	100	100
	:										
982	:	285.7	279.2	306.5	288.4	289.1	280.7	259.3	133	121	145
.983	:	291.7	282.2	319.9	298.3	298.4	285.2	261.8	134	127	141
.984		302.9	292.6	333.4	311.3	311.1	291.1	273.3	142	138	146
1985	-	309.8	296.8	346.6	323.3	322.2	293.8	271.2	128	120	136
	:										

Sources: (39, 57, 59).

Appendix table 6--Value of U.S. dollar and interest rates

	:			:	
	:	Value of U.S.	dollar 1/		est rates
Year	:	:		: Short-term	: Long-term
	:	Nominal :	Real <u>2</u> /	: 3-month	: corporate bonds
	<u>:</u>	:		: Treasury Bill	: AAA (Moody's)
	:				
	:	<u>1973 =</u>	100	<u>Per</u>	cent
	:				<del></del>
1963	:	NA	NA	3.157	4.26
1967	:	120.0	NA	4.321	5.51
1972	:	109.1	NA	4.071	7.21
1977	:	103.3	93.1	5.265	8.02
	:				
1982	:	116.6	111.7	10.686	13.79
1983	:	125.3	177.3	8.63	12.04
1984	:	138.2	128.7	9.58	12.71
	:				
1985	:	143.2	132.0	7.48	11.37
I	:	156.5	144.2	8.18	13.39
II	:	149.1	137.0	7.52	13.02
III	:	139.2	128.5	7.10	12.47
IV	:	128.2	118.3	7.14	11.98
	:				
1986	:				
I	:	119.5	110.2	6.90	9.57
II	:	114.2	104.6	6.14	9.03
	:			<b></b>	7.00

NA = Not available.

Source: (<u>13</u>).

 $<sup>\</sup>frac{1}{2}$  Multilateral trade-weighted.  $\frac{2}{2}$  Adjusted by changes in consumer prices.

Appendix table 7--Food and nonfood sales or shipments in food marketing

Year	:	Processing	: : Wholesaling :	: Food service :	: Retailing
	:		Milli	on dollars	
	:		<del></del>		
1972	:	115,051	106,457	NA	99,035
1977	:	192,912	182,905	81,776	157,941
1982	:	280,794	288,658	133,264	245,346
1983	:	286,967	312,800	145,733	254,878
1984	:	300,890	340,600	158,485	270,430
1985	:	307,358	357,600	172,749	282,198
1986 1/	•	315,000	382,100	183,114	294,615
	:	,	•	•	

NA = Not available. 1/ ERS projections.

Sources: (42, 45, 47, 48, 52, 54).

Appendix table 8--Number of food marketing establishments

Year	:	Processing	: Wholesaling	Eating and drinking places 1/	: Retailing	: Total
	:			Number		
1963	:	37,521	41,890	334,481	319,433	733,325
1967	:	32,517	40,005	271,182	294,243	637,947
1972	:	28,193	38,531	359,524	267,352	693,420
1977	:	26,656	37,960	368,066	252,853	685,135
1982	:	22,130	38,516	379,444	241,737	684,084
	:					

1/ Excludes all noncommercial eating facilities and such commercial outlets as hotel restaurants, department store coffee shops, and ball park food concessions. These eating facilities numbered over 397,000 in 1982 and over 343,000 in 1977.

Sources: (45, 47, 48).

Appendix table 9--Number of food marketing establishments covered by unemployment insurance 1/

Year	: : :	Processing	: : Wholesaling :	: :	Eating and drinking places 2/	:	Retailing	:	Total
	:				Number				
1978	:	24,999	39,339		284,531		127,974		476,843
1979	:		40,009		288,016		128,114		480,311
1980	:		40,613		290,959		129,402		484,320
1981	:	24,061	41,629		292,570		129,921		488,181
	:	•	,		,		,,		400,101
1982	:	24,180	42,626		297,630		132,067		496,503
1983	:	24,127	43,498		305,684		135,125		508,434
1984	:	23,845	44,856		308,966		136,651		514,318
L985	:	23,669	45,571		314,112		138,561		521,896
	:		•		, == ==		,		,0,0

 $<sup>\</sup>underline{1}/$  Includes production establishments, central business offices, and other auxiliary units.

Source:  $(\underline{58})$ .

<sup>2/</sup> Excludes all noncommercial eating facilities and such commercial outlets as hotel restaurants, department store coffee shops, and ball park food concessions. These eating facilities numbered over 397,000 in 1982 and over 343,000 in 1977.

Appendix table 10--Number of food marketing establishments (county business patterns) 1/

Year	:	Processing	: : Wholesaling :	:	Eating and drinking places 2/	:	Retailing	:	Total
	:				Number				
.974	:	25,383	34,736		241,253		160,233		461,605
L975	:	24,550	34,577 34,893		245,774 252,267		159,710 162,010		464,611 473,283
1976 1977	:	24,113 24,294	35,951		275,761		167,088		503,094
.978 .979	:	23,748 21,362	35,019 36,127		278,609 275,447		161,230 159,162		498,606 492,098
. 3 1 3	:	,	•		·		·		ŕ
.980 L981	:	20,983 20,720	35,636 35,535		271,236 273,726		157,649 162,952		485,504 492,933
982	:	20,808	36,521		299,684		173,311		530,324
L983 <u>3</u> / L984 4/		21,757 21,667	39,517 37,492		351,935 350,619		187,451 185,133		600,720 594,911
-	:								

<sup>1/</sup> Includes administrative and auxiliary establishments, both of which are excluded from table 8. See footnote 1 of table 8.

Source: (49).

<sup>2</sup>/ Excludes all noncommercial eating facilities and such commercial outlets as hotel restaurants, department store coffee shops, and ball park food concessions. These eating facilities numbered over 397,000 in 1982 and over 343,000 in 1977.

<sup>3/</sup> Beginning in 1983, establishments were included if they were in existence any time during the year. For prior years, only firms in existence at the end of the year were included.

<sup>4/</sup> ERS projections.

Appendix table 11--Sales of top 50 food processing companies

Company	: 	1985	: : 1984
	: :	Million	dollars
	:	<del></del>	
General Foods Corporation	:		
(Philip Morris)	:	9,020	8,600
Beatrice Foods	:	8,130	5,840
R.J.RNabisco	:	8,000	4,700
(raft, Inc. (Dart & Kraft)	:	7,100	6,800
Coca-Cola Company	:	6,830	6,270
nheuser-Busch	:	6,820	6,340
epsiCo, Inc.	:	5,970	5,620
ara Lee Corporation	:	5,950	5,060
Borden, Inc.	:	4,720	4,570
J. Heinz Company	:	4,040	3,950
ampbell Soup Company	:	3,980	3,650
Philip Morris Companies, Inc.	:	3,590	3,660
ConAgra	:	3,560	1,430
lalston-Purina	:	3,550	1,880
Cellog Company	:	2,930	2,600
lestle Enterprises, Inc.	:	2,880	2,700
roctor-Gamble	:	2,810	2,460
eneral Mills	:	2,770	2,710
uaker Oats Company	:	2,750	2,560
.P.C. International, Inc.	:	2,520	2,550
illsbury Company	:	2,410	1,790
ershey Foods Corporation	:	1,990	1,840
nited Brands Company	:	1,900	1,920
nderson Clayton	:	1,750	1,400
ilson Foods Corporation	:	1,530	1,880
eorge A. Hormel and Company	:	1,500	1,450
trohs Brewery Company	:	1,500	1,500
.C. Industries	:	1,380	1,250
. Heilman Brewing Company	:	1,330	1,340
homas J. Lipton, Inc.	:	1,270	1,140
yson Foods, Inc.	:	1,400	750
dolph Coors Company	:	1,070	948
ean Foods Company	:	1,030	923
merican Home Products	:	1,020	996
eebler Company	:	939	876
cCormick and Company, Inc.	• ,	826	747
he Southland Corporation	:	803	725
nterstate Bakeries Corporation	:	704	686
mithfield Foods	:	669	542
horn Apple Valley, Inc.	:	659	664
urtice-Burns, Inc.	:	636	612
lowers Industries, Inc.	:	626	603
cean Spray Cranberries Inc.	:	542	466
odberry Schweppes, Inc.	:	512	564
merican Brands, Inc.	:	510	494
inn Enterprises	:	502	411
niversal Foods Corporation	:	493	433
CM Corporation	:	422	393
.S. Pierce Company	:	404	377
erber Products	:	401	406

Source:  $(\underline{25})$ .

Company	:	Sales
	:	Dates
	:	_
	:	Million dollars
	:	
uper Value	:	5,589
leming Companies, Inc.	:	5,511
etterau, Inc.	:	2,915
ysco Corporation	:	2,800
alone and Hyde, Inc.	:	2,682
akefern Food Corporation	:	2,500
crivner, Inc.	:	2,166
ertified Grocers (CA)	:	1,874
'S Continental, Inc.	:	1,700
A Monarch, Inc.	:	1,500
sociated Wholesale Grocers (K.C.)	:	1,475
per Food Service, Inc.	:	1,397
oundy's, Inc.	:	1,380
partan Stores, Inc.	:	1,312
Lane Company	:	1,001
koff-Sexton, Inc.	:	1,000
aft, Inc.	:	917
chfood, Inc.	:	870
in County Grocers, Inc.	:	858
ringfield Sugar and Products	:	850
teway Foods, Inc.	:	800
sociated Grocers (Seattle)	:	757
sh Finch Company	:	715
ertified Grocers Midwest	:	700
lfred M. Lewis, Inc.	:	687
	:	

Sources:  $(\underline{5}, \underline{37})$ .

	:	0.11/
Company	:	Sales $1/$
	<del>:</del>	
	:	Million dollars
	:	
The Kroger Company	:	15,967
Safeway Stores, Inc.	:	15,399
American Stores Company	:	2/13,890
Winn-Dixie Stores Company	:	8,050
The Southland Corporation	:	2/ 7,000
Lucky Stores, Inc.	:	6,225
The Great Atlantic and Pacific Tea Company	:	5,164
Albertson's, Inc.	:	5,060
Supermarkets General Corporation	:	4,575
Publix Supermarkets, Inc.	:	3,446
Vons Grocery Company	:	2/ 2,664
Grand Union Company	:	2,559
Giant Food, Inc.	:	2,247
H.E. Butt Grocery Company	:	1,936
Food Lion	:	1,857
Ralphs Grocery Company	:	1,814
The Stop & Shop Companies, Inc.	:	1,810
Waldbum, Inc.	:	1,764
First National Supermarkets, Inc.	:	1/ 1,400
Dominick's Finer Foods	:	$\overline{\underline{1}}/1,300$
	:	

 $<sup>\</sup>frac{1}{2}$ / Excludes company sales other than food retailing.

Source: (5).

	:_		1985				1984		
Company	:	Rank	:	Sales	:	Rank	:	Sales	
	:								
	:			Million				Million	
	:			dollars				dollars	
W-D116 0	:								
McDonald's Corporation	:	1		11,000		1		10,006	
Pillsbury Restaurant Group	:	2		5,538		2		4,364	
Pepsi Cola Foodservice Division	:	3		3,671		4		3,159	
Marriott Corporation	:	4		3,394		6		2,921	
Kentucky Fried Chicken	:	5		3,100		3		3,328	
Wendy's International	:	6		2,694		7		2,423	
USDA, Food & Nutrition Service	:	7		2,671		5		3,032	
ARA Services, Inc.	:	8		2,380		10		1,960	
Imasco U.S.A.	:	9		1,936		8		2,200	
Trans World Corporation	:	10		1,815		11		1,712	
Holiday Corporation	:	11		1,622		9		2,020	
International Dairy Queen	:	12		1,604		12		1,423	
Denny's, Inc.	:	13		1,280		13		1,237	
Saga Corporation	:	14		1,254		14		1,130	
Sheraton Corporation	:	15		1,162		15		1,095	
Domino's Pizza	:	16		1,084		32		626	
General Mills Restaurant Group	:	17		1,050		16		1,080	
W.R. Grace Restaurant Group	:	18		1,036		21		771	
Service America Corporation	:	19		1,000		19		980	
Shoney's, Inc.	:	20		985		17		932	
Collins Foods International	:	21		895		23		752	
Hilton Hotels	:	22		881		20		790	
J.S. Navy Foodservice	:	23		852		18		873	
Arby's, Inc.	:	24		811		22		756	
Southland Corporation	:	25		810		37		508	
•	:			Ü <b>.</b>		5,		300	

Source: (5).

Appendix table 15--Number of food marketing companies

Year	:	Processing:	Wholesaling	: : Food service : :	Retailing	: Total
	:			Number		
.963	:	32,617	35,666	NA.	NA	NA
L967	:	26,549	33,848	NA	NA	NA.
.972	:	22,171	32,053	221,883	218,320	494,427
.977	:	20,616	31,670	226,421	200,486	478,590
.982	:	16,800	31,290	198,088	198,815	444,993
	:				•	,

NA = Not available.

Sources: (45, 46, 48).

Appendix table 16--Aggregate concentration in food marketing, census years

	:		Shar	e of market o	ont	rolled by to	on f	irms
Year	:-	Top 50	: Top 50 : Top 20 :		:	Top 50		
	:	processing	:	wholesaling	:	retailing	:	foodservice
	:	firms	:	firms	:	firms	:	firms
	:							
	:			P	erc	ent		
	:			_				
.963	:	NA		NA		34.0		NA
967	:	35.0		NA		34.4		NA
.972	:	38.0		48.0		34.8		13.3
L977	:	40.0		57.0		34.5		17.8
.982	;	43.0		64.0		34.9		20.2
	:							

NA = Not available.

Sources: (45, 47, 48).

Appendix table 17--Number of food marketing mergers

Year	:	Processing	Wholesaling	Retailing	: : Food service	: Total
	÷			<u> </u>	<u> </u>	<u> </u>
1982	:	250	38	38	51	377
1983	:	225	38	45	64	372
1984	:	242	37	60	78	417
1985	:	291	64	52	73	480
	:					

Source:  $(\underline{6})$ .

Appendix table 18--Food marketing mergers costing more than \$100 million, 1985 1/

Buyer	: Seller	: Price	: Type <u>2</u> /
	:	: : Million dollar	rs
Philip Morris Company	: General Foods Corporation	: 5,965	2
Kohlberg, Travis, Roberts, and Company	: Beatrice Foods Corporation	: 5,362	2
R.J. Reynolds Industries, Inc.	: Nabisco Brands, Inc.	: 4,906	2
Pantry Pride, Inc.	: Revlon, Inc.	: 1,639	2
Proctor and Gamble Company	: Richardson, Vicks, Inc.	: 1,611	2
Chesebrough-Ponds, Inc.	: Stauffer Chemical Company	: 1,218	2
PepsiCo, Inc.	: M.E.I. Corporation	: 683	2
Private group	: Household International Inc.	: 645	1
Castle and Cooke, Inc.	: Flexi-Van Corporation	: 559	2
Private group	: Ralston Purina Company (Foodmaker, Inc.)	: 450	1
Pillsbury Company	: Diversifoods, Inc.	: 388	2
Coca-Cola Company	: Embassy Communications, Inc. and Tandem	:	•
Description of Control	: Productions	: 365	3
Proctor and Gamble Company National Distillers and Chemical	: Monsanto Company :	: 300 :	L
Corporation	: Reliance Group Holding, Inc.	: 225	1
Sandoz Ltd Switzerland	: Martin Marietta Corporation (subsidiary)	: 190	1
Circle K Corporation	: Shop and Go, Inc.	: 167	2
Croger Company	: Hook Drugs, Inc.	: 161	2
PepsiCo, Inc.	: Allegheny Beverage Corporation	: 160	1
JSA Cafes	: Ponderosa, Inc.	: 154	2
Whirlpool Corporation	: Dart and Kraft, Inc. (Kitchen Aid)	: 150	1
esray/Capital Corporation	: Pepsico, Inc. (Wilson Sporting Goods)	: 150	1
rivate Group	: Swift Independent Corporation	: 140	2
Pullman Company	: Peabody International Corporation	: 127	2
Private Group	: I.C. Industries, Inc. (P.P.C. Food Markets)	: 125	1
Jnilever N.VNetherlands	: Anderson Clayton and Company	: 113	1
	:	:	

Source: (15).

 $<sup>\</sup>frac{1}{2}$ / Completed or pending.  $\frac{2}{2}$ / 1 = Divestiture, 2 = public seller, 3 = private seller.

Appendix table 19--Food marketing mergers among the 100 largest transactions in history

	:	Rank among	:		:	Year
Company	:	transactions	: I	Price	:	announced
	:					
	:	<u>M</u>	1111	ion do	11	ars
	:					
Philip Morris Companies	:	7		5,628	3	1985
General Foods Corporation	:					
Kohlberg, Kravis, Roberts, and Co.	:	9		5,362	?	1985
Beatrice Companies	:					
R.J. Reynolds Industries, Inc.	:	12		4,906	•	1985
Nabisco Brands, Inc.	:					
Nestle S.ASwitzerland	:	23		2,886	•	1984
Carnation Company	:			-		
Beatrice Foods Company	:	28		2,486	•	1984
Esmark, Inc.	:			•		
Kraft, Inc.	:	32		2,400	)	1983
Dart Industries	:			•		
Pantry Pride, Inc.	:	48		1,639	)	1985
Revlon	:			,		
Proctor and Gamble Company	:	49		1,600	)	1985
Richardson-Vicks, Inc.	:			_,-		
R.J. Reynolds Industries	:	64		1,303	}	1982
Heublein, Inc.	:			_,		
Chesebrough Ponds, Inc.	:	69		1,200	)	1976
Stauffer Chemical Company	•	• •		_,		
	•					

Source: (15).

Appendix table 20--Acquisition and divestiture leaders in food marketing, 1985

_	:	:	
Company	:	Acquisitions:	Divestitures
	:		
	:	Nun	<u>iber</u>
	:		
ConAgra	:	8	0
Dart and Kraft, Inc.	:	8	0
Coca-Cola	:	7	0
Pillsbury	:	7	0
Dean Foods Company	:	5	0
Kroger	:	5	0
Siena Spring Water Company	:	5	0
Beatrice Company	:	0	10
Sara Lee Corporation	:	0	8
I.C. Industries, Inc.	:	0	7
,	:		

Source: (<u>15</u>).

Appendix table 21--Food processing mergers

	:		:	:					:	U.S. p	urchases
Year	:	Value	:	Rank among	:_	Foreign buyers		:	of foreign firms		
	:		:	all industries	<u>:</u>	Number	:	Value	:	Number	: Value 1/
	:	W.111.									
	-	Million						Million			Million
	:	dollars				Number		dollars		Number	dollars
	:										
1981	:	3,800		5		9		135		7	52
.982	:	3,075		5		4		131		5	154
.983	:	1,163		17		9		253		6	105
1984	:	7,095		2		8		2,994		5	96
.985	:	11,838		5		8		257		10	70
	:										

 $<sup>\</sup>underline{1}$ / Includes only those mergers in which the value of the transaction was recorded.

Source: (15).

Appendix table 22--Number of employees in food marketing

	:	:	:	:			:
Year	:	Processing:	Wholesaling :	Eating and drinking :	Reta	iling	: Total
	<u>:</u>	:	<u> </u>	places 1/ :	Food stores:	Grocery stores	:
	:						
	:			Thousands	-		
1963	:	1,752.0	472.9	1,747.9	1,383.8	NA	5,356.6
1967	:	- <b>'-</b>	513.0	2,191.4	1,571.6	NA.	6,062.3
1972	:	1,745.2	536.3	2,860.2	1,805.1	1,577.8	6,946.8
1977	:	1,711.0	611.7	3,948.6	2,106.3	1,837.2	8,377.3
1982	:	1,635.9	666.9	4,831.2	2,477.6	2,152.8	9,611.6
1983	:	1,614.8	682.4	5,041.8	2,556.2	2,234.6	9,895.2
1984	:	1,612.2	707.3	5,388.0	2,637.1	2,298.1	10,344.6
1985	:	1,607.9	734.3	5,715.1	2,778.6	2,427.0	10,835.9
	:						•
January.	-:						
June:	:						
1985	:	1,572.4	723.5	5,638.3	2,732.5	2,377.8	10,667.7
1986	:	1,603.5	752.8	5,846.4	2,893.9	2,517.8	11,096.6
	:					•	•

NA = Not available.

Source: (58).

Appendix table 23--Number of production workers in food marketing

Year	:	Processing	: : Wholesaling	: : Eating and drinking	: Re	tailing	: Total
	:	<del>-</del>	<u>:</u>	: places 1/		Grocery stores	<u>:</u>
	:			Thousan	de		
	•			Thousan	<u></u>		
1963	:	1,157.3	411.3	NA	1,289.9	NA	2,858.5
1967	:	1,187.3	442.3	2,047.8	1,456.6	NA	5,134.0
1972	:	1,191.8	462.2	2,673.7	1,676.1	1,467.3	6,003.8
1977	:	1,161.0	526.3	3,665.4	1,942.1	1,697.4	7,294.8
1982	:	1,125.6	575.3	4,444.1	2,294.0	2,016.5	8,439.0
1983	:	1,113.7	588.4	4,632.9	2,374.0	2,085.0	8,709.0
1984	:	1,119.5	598.3	4,925.9	2,441.7	2,139.7	9,085.4
1985	:	1,121.9	621.9	5,199.2	2,569.6	2,258.0	9,512.6
	:						
Janua ry	-:						
June:	:						
1985	:	1,087.9	612.4	5,099.2	2,517.3	2,212.0	9,316.8
1986	:	1,172.7	630.9	5,264.3	2,667.7	2,340.3	9,735.6
	:						

NA = Not available.

Source: (58).

<sup>1/</sup> Excludes all noncommercial eating facilities and such commercial outlets as hotel restaurants, department store coffee shops, and ball park food concessions. These eating facilities numbered over 397,000 in 1982 and over 343,000 in 1977.

<sup>1/</sup> Excludes all noncommercial eating facilities and such commercial outlets as hotel restaurants, department store coffee shops, and ball park food concessions. These eating facilities numbered over 397,000 in 1982 and over 343,000 in 1977.

Appendix table 24--Average hourly earnings in food marketing

	:		:	:	:
Year	:	Processing	: Wholesaling	: Eating and drinki	ng : Retailing
	:		:	: places 1/	: Food stores
	:				
	:			Dollars	
	:				
1963	:	2.30	2.23	NA	1.90
1967	:	2.64	2.65	1.50	2.23
1972	:	3.60	3.69	2.07	3.18
1977	:	5.37	5.43	2.93	4.77
1982	:	7.92	8.25	4.09	7.22
1983	:	8.19	8.70	4.27	7.51
1984	:	8.39	9.03	4.26	7.64
1985	:	8.57	9.20	4.33	7.35
	:			2	
Janua ry	-:			). <del>**</del> *	
June:	:				
1985	:	8.57	9.17	4.32	7.46
1986	:	8.73	9.17	4.34	7.12
	:				, •

NA = Not available.

Source: (58).

<sup>1/</sup> Excludes all noncommercial eating facilities and such commercial outlets as hotel restaurants, department store coffee shops, and ball park food concessions. These eating facilities numbered over 397,000 in 1982 and over 343,000 in 1977.

Appendix table 25--Average weekly earnings in food marketing

Year	:	Processing	: Wholesaling	: Eating and drinking	: Reta	iling
	:		:	: places 1/		Grocery stores
	:					····
	:			Dollars		
	:					
1963	:	94.30	92.32	NA	66.69	NA
1967	:	107.98	107.86	50.10	74.48	NA
1972	:	145.80	143.91	62.97	104.30	106.92
1977	:	214.80	209.60	81.75	155.07	161.38
1982	:	312.05	315.15	107.16	221.65	230.38
1983	:	323.51	324.96	112.30	229.81	238.85
1984	:	333.92	347.66	112.04	233.78	244.24
1985	:	342.60	351.44	111.71	221.97	230.43
	:					
January	-:					
June:	:					
1985	:	338.95	348.43	110.78	223.29	232.69
1986	:	347.26	347.97	110.18	212.27	219.82
	:					

NA = Not available.

Source: (55).

Appendix table 26--Food marketing productivity

	:				Output per person hour					
Year		Red meats	: Milk	: : Preserved : fruits and : vegetables	•	: : Sugar :	: : Beer :	: : Soft : drinks :		: : Eating and : drinking : places
	:					1977 = 1	.00			
1967	: :	74.8	62.9	73.8	82.8	77.1	47.4	66.6	98.0	97.5
1972	:	85.0	85.1	83.1	94.1	90.4	66.1	75.4	110.3	102.3
1977	:	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1982	:	112.3	140.0	107.9	103.3	90.4	122.6	118.3	93.5	96.6
1983	:	115.9	145.5	110.9	106.9	98.6	131.3	127.0	93.9	97.1
1984	:	117.0	152.6	112.4	106.8	99.7	137.9	138.3	93.6	95.5
19851/	:	NA	NA	NA	NA	103.1	135.7	144.9	92.7	92.9

NA = Not available.

Source:  $(\underline{60})$ .

<sup>1/</sup> Excludes all noncommercial eating facilities and such commercial outlets as hotel restaurants, department store coffee shops, and ball park food concessions. These eating facilities numbered over 397,000 in 1982 and over 343,000 in 1977.

<sup>1/</sup> Preliminary.

Appendix table 27--Value added in food marketing productivity per full-time equivalent employee

Sector	: : 1972	: 1977	1982	1983	1984 :	1985
t .	:		198	2 dollar	: <u>s</u>	
Food marketing Processing Retailing and wholesaling Transportation Eating and drinking places	: 36,184 : 25,557 : 39,105	29,498 42,068	27,767 43,928 27,022 41,940 13,773	28,902 45,781 28,066 93,546 14,069	29,540 47,416 28,972 44,634 14,654	29,560 47,427 28,892 44,660 14,652
Other supporting sectors	: : 30,065	32,798	32,284	34,497	35,472	35,888

Source: (19).

Appendix table 28--Profit margins in food marketing

Year and quarter	:	: Stockholders':		Before-tax profits for general line wholesalers as a share of net worth	: After-tax profits : for retail food : stores as a : share of: : : Stockholder				
	<u>:</u>	Sales:	equity :		<u>:</u>	Sales	<u>:</u>	equity	
	:			Percent					
1977	:	3.1	13.2	NA		0.8		10.7	
1982	:	3.1	13.0	17.2		1.0		12.6	
1983	:	3.3	12.0	18.0		1.2		13.3	
	:	3.3	13.3	14.6		1.4		16.2	
	: :	4.1	15.3	NA		1.2		14.2	
	:	3.4	12.8	NA		.9		10.8	
	•	3.9	15.0	NA.		1.4		16.5	
	:	4.6	16.5	NA.		1.3		14.1	
IV	:	4.6	16.9	NA		1.4		15.2	
	:								
1986	:								
I	:	3.6	12.9	NA		.8		9.2	
	:	4.1	15.7	NA		1.4		15.2	

NA = Not available.

 $<sup>\</sup>underline{1}$ / Beginning in 1985, food processing was combined with tobacco processing. Source: (53).

Appendix table 29--Food-related advertising

	:	:	:	: Fire	st half	:
Item	:	:	: Percentage	:	•	: Percentage
	: 1984	: 1985	: change	: 1985	: 1986	: change
	: : <u>Millio</u>	n dollars	Percent	Million	n dollars	Percent
Seven media 1/	: : 5,561	6,159	10.7	2,961	3,138	6.0
Eating and drinking places 2/	943	1,126	19.4	510	580	13.7
Food stores	: 249	239	-4.0	116	180	12.0
Processed foods	: 4,369	4,794	9.7	2,335	2,428	4.0
Cooking products and seasonings		618	8.6	302	282	-6.7
	: 698	842	20.6	391	430	10.0
	: 216	290	32.4	140	196	40.0
	: 133	142	6.7	67	76	13.4
Meat, poultry and fish	: 162	174	7.4	86	88	2.3
Bakery	: 200	229	14.5	134	118	-2.0
Food beverages	: 458	432	-5.6	212	207	-2.4
Combination copy	: 37	33	-10.8	17	18	5.8
	: 526	596	13.3	301	274	-2.3
Soft drinks	: 374	400	6.9	235	213	-9.4
Beer	: 575	601	4.5	268	302	12.7
Wine	: 148	184	24.3	. 68	101	48.0
Liquor	: 272	251	-7.7	114	103	-9.7
Newspaper	: : 1,491	1,629	9.2	NA	NA	NA
Retail foodstores	988	1,057	6.9	523	540	3.3
Processed foods	: 167	150	-10.1	NA	NA	NA
Coupons and inserts	: 336	421	25.3	NA	NA	NA
Coupons	: : 1,200	1,350	12.5	NA	NA	NA
Total advertising	: : 8,252	9,138	10.7	NA	NA	NA

NA = Not available.

Sources: (1, 7, 22).

<sup>1/</sup> Seven media includes network television, spot television, cable television, magazines, newspaper supplements, network radio, and billboards.

<sup>2/</sup> Includes hotel restaurants not otherwise counted among eating and drinking places.

Appendix table 30--New products introduced in 22 selected categories

	:		:		:		:		:		:		:	
Category	:	1964		1967		1972	:	1982	:	1983	:	1984	:	1985
	<u>:</u>		:		<u>:</u>		<u>:</u>		<u>:</u>		<u>:</u>		<u>:</u>	
	:						,	Maran <b>b</b> . a.	_					
	:						-	Numbe:	<u>-</u>					
Baby food	:	6		10		2		5		5		8		4
Baking ingredients	:	44		35		25		40		30		36		28
Beverages	:	62		75		39		61		81		137		147
Breads, cakes, cookies	:	20		30		38		81		106		103		103
Breakfast cereals	:	10		11		19		11		19		21		23
Candy and gum	:	37		25		36		90		122		123		136
Canned fruit, vegetable	:													
juices	:	14		22		21		52		84		69		74
Canned meat and fish	:	17		17		14		15		23		23		13
Dairy foods	:	28		38		40		91		115		158		167
Desserts, sugar, syrup	:	19		22		13		10		16		11		12
Fresh meats and fish	:	15		11		6		48		87		78		96
Frozen foods	:	72		145		165		207		251		286		322
Household and beauty aids	:	121		125		86		369		362		411		474
Household supplies	:	65		65		49		85		89		91		105
Low-calorie foods	:	28		39		17		60		91		93		71
Macaroni, potatoes, rice	:	27		20		27		30		35		23		42
Paper products	:	16		21		21		19		16		20		26
Pet products	:	17		7		46		33		28		40		51
Sauces, spices, condiments	:	48		55		50		71		94		109		127
Snacks, crackers, nuts	:	16		41		33		102		102		123		130
Soups	:	13		12		10		13		25		15		29
Tobacco products	:	20		35		17		17		19		14		26
	:													
Total	:	715		861		774	1	,510	1	,791	1,	988	2,	206
	:													

Source: (10).

Appendix table 31--Capital expenditures and capacity measures in food marketing

Item	: : 1972	: : 1977	: : 1982 :	•	: 1984	: : 1985 :	: : 1986 :
	:			Billions			
Food processing:	•			BITTIONS			
Plants and equipment expenditures	•						
Current dollars	: 3.3	5.7	8.7	7.8	8.8	10.3	1/10.5
1982 dollars	: 7.4	8.6	8.7	7.7	8.6	9.6	8.9
Capacity utilization rates	:			Percent			
Fourth quarter:	•			reitent			
All industries	: NA	79	65	72	75	75	NA
Food		79	76	72 76	75 76	73 79	NA NA
Meat		86	80	80	76 80	82	NA NA
Dairy		76	77	80	76	81	NA NA
Fruits and vegetables	: NA	76 72	81	77	70 77	76	NA NA
Grain mill		NA	80	80	80	76 79	NA NA
Bakery		81	72	70	83	82	NA NA
Sugar		76	82	81	80	82	NA NA
Fats and oils	: NA	84	76	82	87	84	NA NA
Beverages		83	68	71	69	75	NA NA
Miscellaneous	: NA	55	75	77	69	75 76	na Na
MISCELIAMEOUS	: NA	33	75	//	09	70	INA
	:			Square fee	<u>t</u>		
Food retailing:	:				_		
Total square footage	: 765,233	823,510	963,788	NA	NA	NA	NA
Selling area square footage	: 545,690	606,117	713,065	NA	NA	NA	NA
Food wholesaling:	: :						
Warehouse square footage	: 370,079	350,532	NA	NA	NA	NA	NA
	:			Thousands of	seats		
Food service:	•			out and of			
Seating capacity	· 9,342	10,099	12,035	NA	NA	NA	NA

NA = Not available.

Sources: (43, 47, 48, 50).

<sup>1/</sup> Preliminary.

Item	: : 1980	: :	1002	: 1002	:	: 1005
1 tem	: 1960	: 1981 : : :	1982	: 1983 :	: 1984 :	: 1985 :
	:			1.11		
	•		MIII	lion doll	ars	
Direct foreign investment	:					
in United States:	:					
Food manufacturing	: 4,869	5,721	6,635	7,447	8,270	11,172
Wholesaling	: 616	703	705	1,046	1,124	1,151
Food stores and eating	: 1,447	1,966	2,012	2,106	2,174	2,729
and drinking places	:					
Total	: 6,932	8,390	9,355	10,596	12,168	15,052
	:					
Foreign investment by	:					
United States:	:					
Food manufacturing	: 8,278	9,163	7,630	7,661	8,163	9,297
Wholesaling	: 601	669	662	801	805	997
Food stores and eating	: 1,259	1,365	1,344	1,483	1,522	1,497
and drinking places	:					
Total	: 10,138	11,197	9,636	9,945	10,490	11,791
	:					

Source:  $(\underline{43})$ .

Appendix table 33--Foreign trade in processed foods

Item	:	Ex	DOT	ts	:	Tmi	001	rts	:	Trade	1 <u>م</u> ا	2700
	:		:		: : : : : : : : : : : : : : : : : : :		÷	11440	•	ance		
	:	1985	<u>:</u>	1986	<u>:</u>	1985	<u>:</u>	1986	<u>:</u>	1985	<u>:</u>	1986
	:					Million	n c	dollars				
All processed food	: 1	0,254		10,794		15,976		16,389		-5,722		-5,595
Meat products	:	2,308		2,721		2,422		2,436		-114		285
Dairy products	:	468		•				612		-139		-197
Preserved fruits and vegetables	:	819		840		2,179		1,844		-1,360		-1,004
Grain mill products	:	2,176		2,210		•		230		1,946		1,957
Bakery products	:	45		•				291		-199		-252
Sugar and confections	:	391		461				1,761		-1,494		-1,300
Fats and oils	:	2,319		2,247		•		608		1,597		1,647
Alcoholic beverages	:	408		478		3,078		3,458		-2,670		-2,980
Miscellaneous foods	:	1,320		1,383				5,134		-3,301		-3,751
Seafood	:	1,008		1,037		-		4,208		-2,855		-3,171
All processed food less seafood	:	9,246		9,757		12,113		12,181		-2,867		-2,424

Source: (55).

## Reports From USDA's Economic Research Service

